

TOSHIBA

FILE NO. 050-9902

SERVICE MANUAL

COLOR TELEVISION

21S03D, 21S03F

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1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

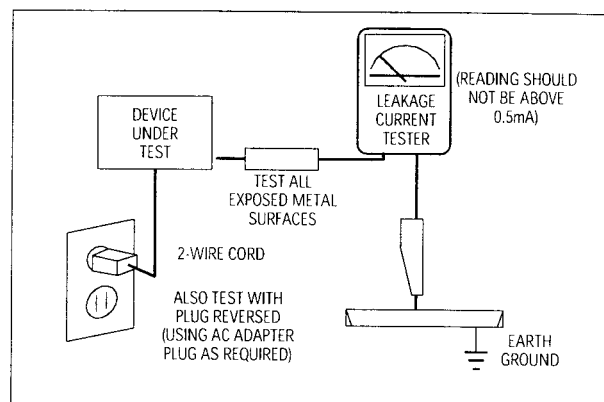


Fig. 1-1 AC Leakage Test



6. Antenna Cold Check:
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.
(X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.

Components that are critical for safety are indicated in the circuit diagram by shading, () or ().
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

2. Specifications and IC Data

2-1 Specifications

Television System:

MODEL	SYSTEM
CI	PAL-I (UHF)
CII	PAL-I (VHF/UHF)
CX	PAL-B/G, SECAM-B/G
CK	PAL-B/G, D/K, SECAM-B/G, D/K
CB	PAL-B/G
CS	PAL-B/G, D/K, SECAM-B/G, D/K, NT4.43, NT3.58

Channels:

SYSTEM BAND	PALSECAM -B/G,I	PALSECAM -D/K	SECAM-K1, PAL-D	NTSC-M
VHF	2-12	1-13	2-9	2-13
UHF	21-69	21-69	13-57	14-69

Intermediate-Frequencies(MHz):

SYSTEM BAND	PALSECAM -B/G	PALSECAM -D/K, K1	PAL-I	NTSC-M
Picture IF Carrier	38.90	38.90	38.90	38.90
Sound IF Carrier	33.40	32.40	32.90	34.40
Color Sub Carrier	34.47	34.47	34.47	35.32

Picture Tube:

25 Inch	A59KPR84X	Quick start, in-line-gun, Black stripe, 90° degree deflection
29 Inch	A68KVL74X	
30 Inch	A70QBZ791X	

Power Requirements: AC100 ~ 260V, 50/60HZ or AC160 ~ 260V, 50/60HZ

Antenna Input Impedance:

VHF,UHF:Telescopic dipole antenna(75Ω unbalanced type)

Speaker Impedance: 8Ω , 10W + 10W

2-2 IC Line Up

LOC NO	NO	Specification	Description	Remarks
HIC101	1	PAP103T	IF PRE-AMP	
IC201	2	TDA8844	PAL/SECAMNTSC/SECAM-L	
		TDA8843	PAL/NTSC	
IC301	3	LA7845	VERTICAL DEFLECTION AMP	
IC501	4	TDA6108	RGB DRIVE AMP	
IC601	5	TDA7297	SOUND AMP(10W/CH)	
		TDA7266S	SOUND AMP(5W/CH)	
IC701	6	TDA9859	AUDIO PROCESSOR	
IC801	7	KA3S1265R	SMPS IC(12A)	
IC802	8	PC123Y	PHOTO COUPLER	
IC803	9	78R05	SWITCHING REGULATOR	
IC804	10	KA7630	SWITCHING REGULATOR(5.8V)	
IC901	11	SZM503AT	MICOM	
IC902	12	24C040	EEPROM	
ICE01	13	4558	EW DRIVE AMP	
ICN01	14	TDA9808	SIF DETECTOR	NICAM MODULE
ICN02	15	TDA9874H	NICAM DEMODULATOR	
ICA01	16	LA7567N	SIF DETECTOR	A2 STEREO MODULE
ICA02	17	TDA9873H	A2 DEMODULATOR	
ICM01	18	LA7566	SIF & FM DETECTOR	MONO
ICP01	19	TEA5114	VIDEO SWITCH	PIP MODULE
ICP02	20	TDA9160A	PAL/NTSC DECODER	
ICP03	21	SDA9288	PIP VIDEO PROCESS	
ICT01	22	SAA5261	TTX-DECODER	TTX MODULE
ICT02	23	24C02	EEPROM(TTX PAGE MEMORY)	

2-3 Semiconductor Base Diagrams

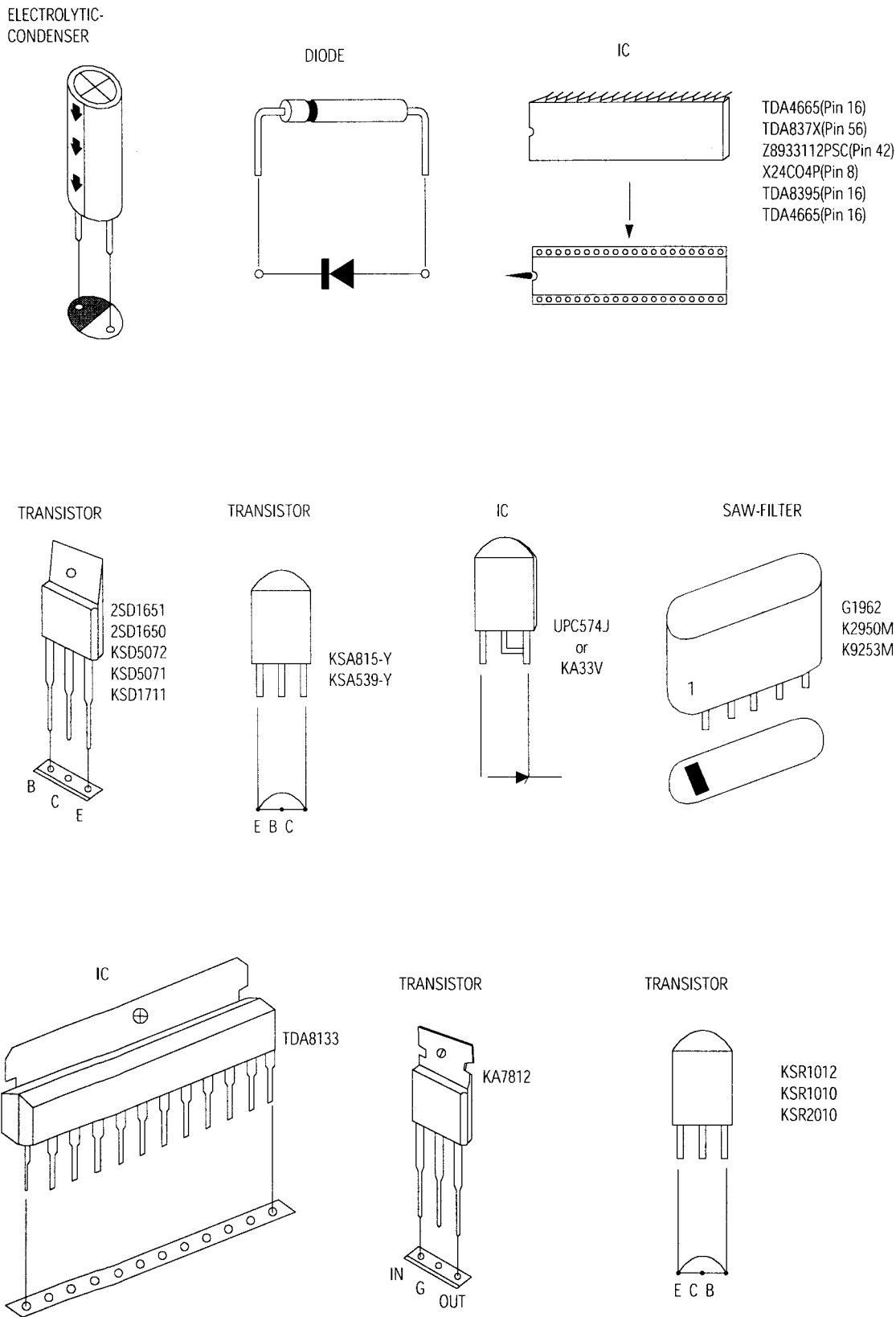
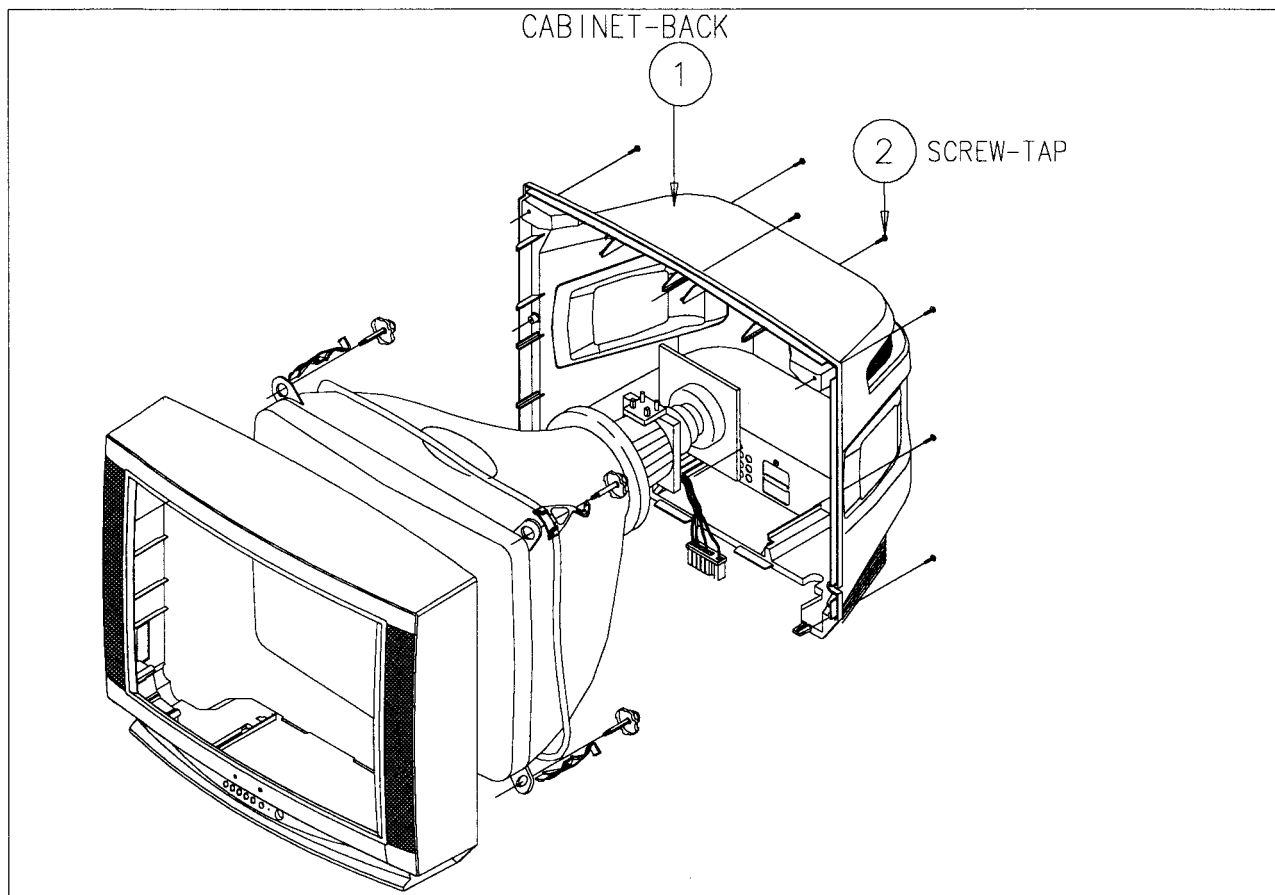


Fig. 2-1 Semiconductor Base Diagrams

MEMO

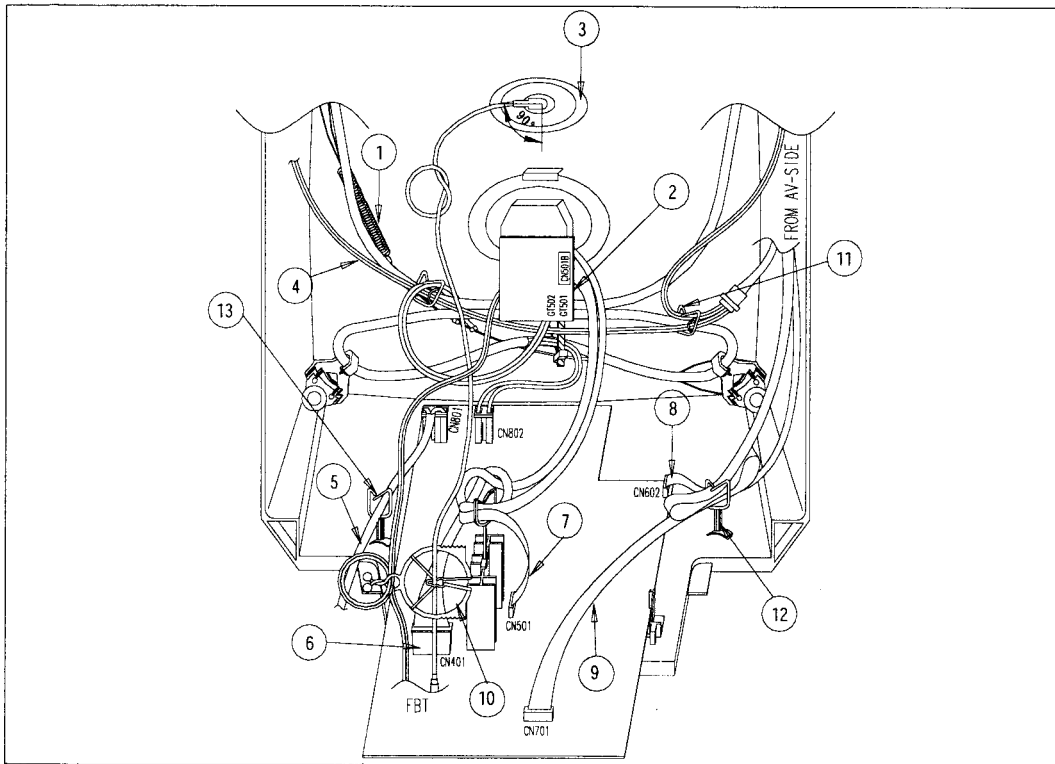
3. Disassembly and Reassembly

3-1 Back Cover Removal



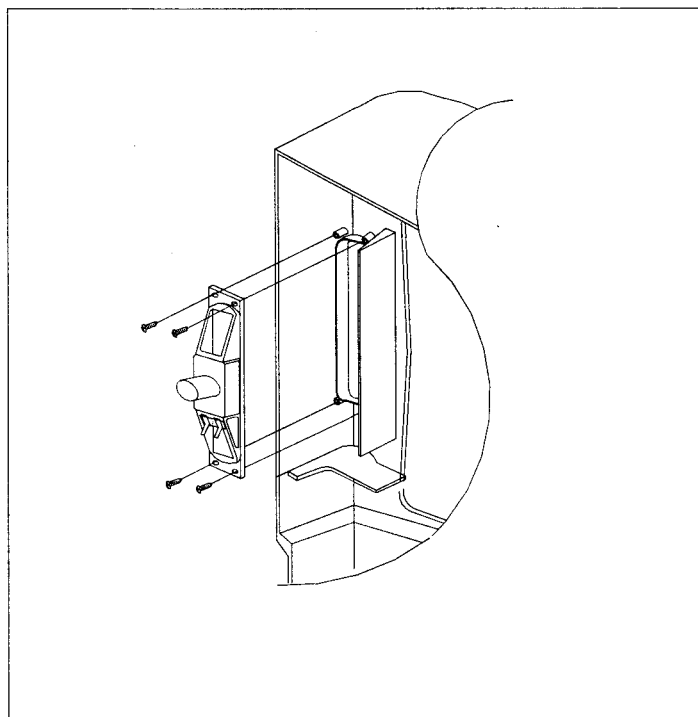
1. After removing the 7 screws, pull the cabinet backwards.

3-2 Main Board Removal

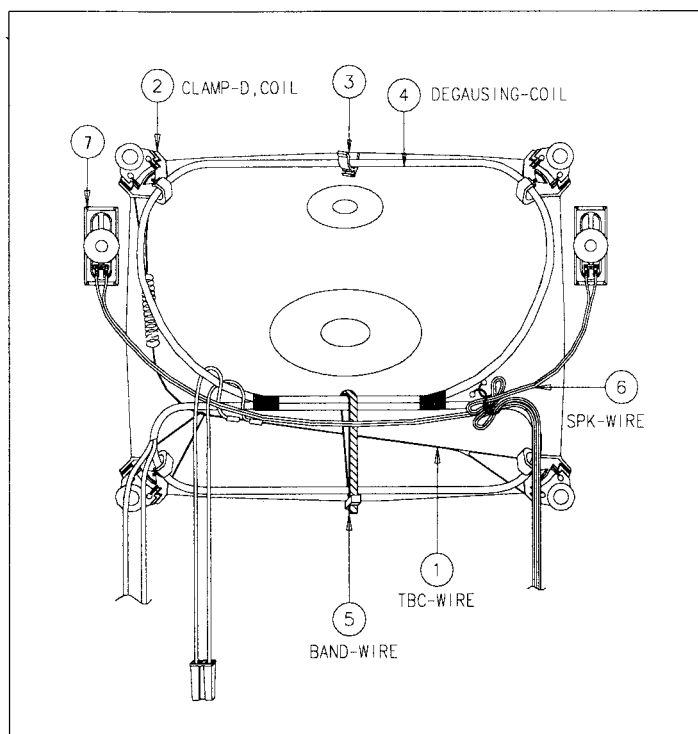


1. Separate the TBC-wire 2P connector from GT501,GT502.
2. Separate the CRT Assay from the CRT socket.
3. Remove the Anode Cap from the CRT.
4. Separate the D-Coil Connector from CN802.
5. Separate the AC cord from CN801.
6. Separate the DC connector from CN401.
7. Separate the CN501B 8P CRT connector from CN501.
8. Separate the CNA05 5P A/V side connector from CN602.
9. Separate the CNA01 8P CRT connector from CN701.
10. Separate the Focus,Screen Wire from the FBT clamber.
11. Separate the TBC wire 2P, speaker wires from the wire clamber.
12. Separate the CN701, CN602 connector from the wire clamber.
13. Separate the AC cord from the wire clamber.
14. Remove the main board by pulling it with both hands.

3-3 Speaker Removal

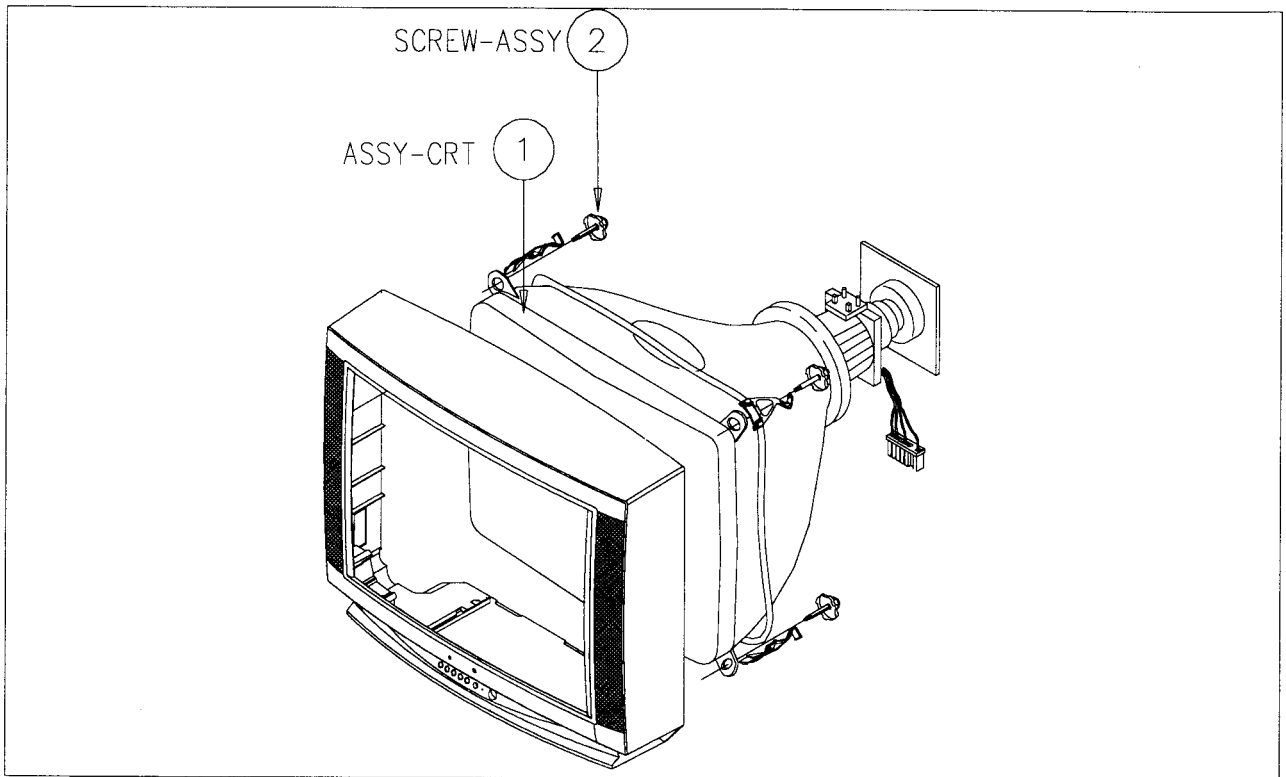


1. Remove the speaker by pressing the tension rib.



1. Separate the speaker wires from D-coil (located on the bottom to the right side).
2. Remove the screws.

3-4 CRT Removal



1. Remove the 4 nuts mounting the CRT to the front cabinet.
Pull the CRT backwards.
2. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it: (1) Always lift the picture tube by grasping it firmly around the faceplate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

4. Alignment and Adjustments

4-1 Preadjustment

4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds.

4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence :

White Balance
 Sub-Brightness, Sub-Contrast
 Vertical Center
 Vertical Size
 Horizontal Size
 Fail Safe (This adjustment must be the last step).

4-2 Factory/Service Mode

4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by entering the following remote-control sequence :
 (1) STAND-BY → DISPLAY → MENU → MUTE → POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has three components: Adjustment, Option and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys (Up or Down). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys (▲, ▼).

4. Selection sequences for the PAL system:

DOWN or UP key:

AGC ↔ VCO ↔ SBT ↔ SCT ↔ SCR ↔ SC ↔ RG ↔
 BG ↔ CDL ↔ STT ↔ LCO ↔ VOL ↔ PSL ↔ PVS ↔
 PVA ↔ PHS ↔ PEW ↔ PEP ↔ PEC ↔ PET ↔ VSC ↔
 TSC ↔ SA ↔ QEW ↔ PCT ↔ PTT ↔ PHM ↔ PVP ↔
 PHP ↔ NSR ↔ PDL ↔ AGC.

5. The VOLUME keys increase or decrease the adjustment values (stored in the non-volatile memory) when Adjustment Mode is cancelled.
6. Cancel the Adjustment Mode by re-pressing the "HIDDEN" or "Power OFF/ON" keys.
7. After adjustments are completed, re-start the TV set.

4-2-2 Main Adjustment Parameters

OSD	FUNCTION	RANGE
AGC	AUTO GAIN CONTROL	0 - 63
VCO	VOLTAGE CONTROLLED OSCILLATOR	0 - 127
SBT	SUB BRIGHTNESS	0 - 23
SCT	SUB CONTRAST	0 - 23
SCR	SUB COLOUR	0 - 23
SC	S-CORRECTION	0 - 63
RG	RED DRIVE GAIN	0 - 63
BG	BLUE DRIVE GAIN	0 - 63
CDL	CATHODE DRIVE LEVEL	0 - 7
STT	SUB TINT (FOR NTSC)	0 - 7
LCO	SECAM-L VOLTAGE CONTROLLED OSCILLATOR	0 - 1
VOL	VOLUME INITIAL LEVEL	0 - 63
PSL	PAL VERTICAL SLOPE	0 - 63
PVS	PAL VERTICAL SHIFT	0 - 63
PVA	PAL VERTICAL AMPLITUDE	0 - 63
PHS	PAL HORIZONTAL SHIFT	0 - 63
PEW	PAL E-W WIDTH	0 - 63
PEP	PAL E-W PALABOLA	0 - 63
PEC	PAL E-W CORNER	0 - 63
PET	PAL E-W TRAPEZIUM	0 - 63
VSC	VERTICAL SCROLL	0 - 63
TSC	TELETEXT SUB CONTRAST	0 - 63
SA	SEPARATION ADJUSTMENT (STEREO)	0 - 15
QEW	Q(12.8:9) MODEL E-W WIDTH	0 - 7
PCT	PIP CONTRAST	0 - 15
PTT	PIP TINT	0 - 63
PHM	PIP HORIZONTAL MOVE	0 - 15
PVP	PIP VERTICAL POSITION	0 - 63
PHP	PIP HORIZONTAL POSITION	0 - 63
NSR	NTSC SUB COLOUR	0 - 23
PDL	PAL DELAYTIME	0 - 15

FACTORY MODE VALUE

OSD	INITIAL	OSD	INITIAL	OSD	INITIAL
2 (CH)		LCO	1 (FIXED)	TSC	20(FIXED)
AGC	10	VOL	25	SA	7
VCO	80(FIXED)	PSL	31(FIXED)	QEW	5
SBT	7	PVS	31	PCT	7(FIXED)
SCT	16	PVA	31	PTT	31(FIXED)
SCR	5(FIXED)	PHS	40	PHM	8(FIXED)
SC	11(FIXED)	PEW	38	PVP	31(FIXED)
RG	31	PEP	22	PHP	31(FIXED)
BG	31	PEC	22	NSR	3 (FIXED)
CDL	5	PET	30	PDL	0 (FIXED)
STT	10(FIXED)	VSC	31(FIXED)		

4-2-3 AGING Mode (Reference Only)

This pattern is used for pre-heating the CRT during manufacturing--it is accessed in the factory by twice pressing the "FACTORY " key.

Even if the TV power is cut off, the Aging Mode is not cancelled, The AGING mode is cancelled by repressing the "HIDDEN" or any key on the front pannel.

4-2-4 Option Byte Table

Option Byte
1.ZOOM MODE : NORMAL/ZOOM/16:9
2.AUDIO MODE : NICAM STEREO
3.ONE CHIP : TDA8844
4.LED OPTION : NORMAL
5.LANGUAGE : WEST ENG/GER/FRA/DUT/SPA/ITA/SWE
6.SYSTEM: CX
7.ATS OPTION : ON
8.FIELD POL : FIELD POS

OPTION	OSD	NOTE
ZOOM MODE	PLU/NOR/ZOOM/16:9	12.8 : 9 CRT USED(30",22")
	NORMAL/ZOOM/16:9	NORMAL CRT USED
	NORMAL/ZOOM	
	PLUS/NORMAL	12.8 : 9 CRT USED(26")
AUDIO MODE	NICAM STEREO	NICAM MODULE USED
	STEREO	A2 MODULE USED
	LINE STEREO	MONO MODULE USED (LINE STEREO MODEL)
	MONO	MONO MODULE USED (MONO MODEL)
ONECHIP	TDA8844	CRT(MORE THAN 22-INCH)USED
	TDA8842	CRT(MORE THAN 21-INCH)USED
LED OPTION	NORMAL	DEFAULT
	POLAND	POLAND MODEL ONLY
LANGUAGE	WEST ENG/GER/FRA/DUT/SPA/ ITA/SWE	WEST EUROPE MARKET ENGLISH/GERMANY/FRANCE/ NETHERLANDS/SPAIN/ITALY/SWEDEN
	EAST ENG/CZE/CRO/RUM/HUN/ POL	EAST EUROPE MARKET ENGLISH/CZECH/CROATIA/ROMANIA/ HUNGARY/POLAND
SYSTEM	CF	SECAM-L/L', PAL/SECAM-B/G
	CI	PAL - I (UHF BAND ONLY)
	CK	PAL/SECAM - B/G,D/K
	CX	PAL/SECAM -B/G
	CB	PAL -B/G
ATS OPTION	ON	ATM FUNCTION USED
	OFF	ATM FUNCTION NOT USED
FIELD POL	FIELD POS	PHILIPS CRT USED
	FIELD NEG	OTHER CRT USED

4-2-5 RESET

The Reset Mode is used during factory inspection.
Function Reset:

- | | |
|-----------------|----------------|
| 1. Channels | Add/Erase |
| 2. Language | Last condition |
| 3. Station name | Clear |

4-3 Other Adjustments

4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 30 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +155 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 33KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 33KV under any conditions.

4-3-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

4-3-5 Screen Adjustment

1. Connect CRT socket pin GK, BK, RK to an oscilloscope probe.
2. Input a gray scale pattern. (Use a pattern generator, PM5518)
3. Use the Picture mode for the STANDARD picture.
4. Adjust the Screen VR (on the FBT) so that the voltage on the oscilloscope becomes $140 \pm 2.5V$ (See Fig. 4-1).

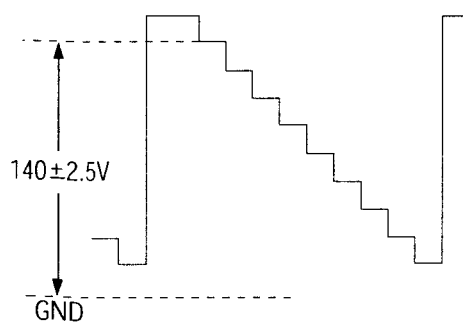


Fig. 4-1

4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-2.
4. Input a black and white signal.
5. Fully demagnetize the receiver by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-3).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

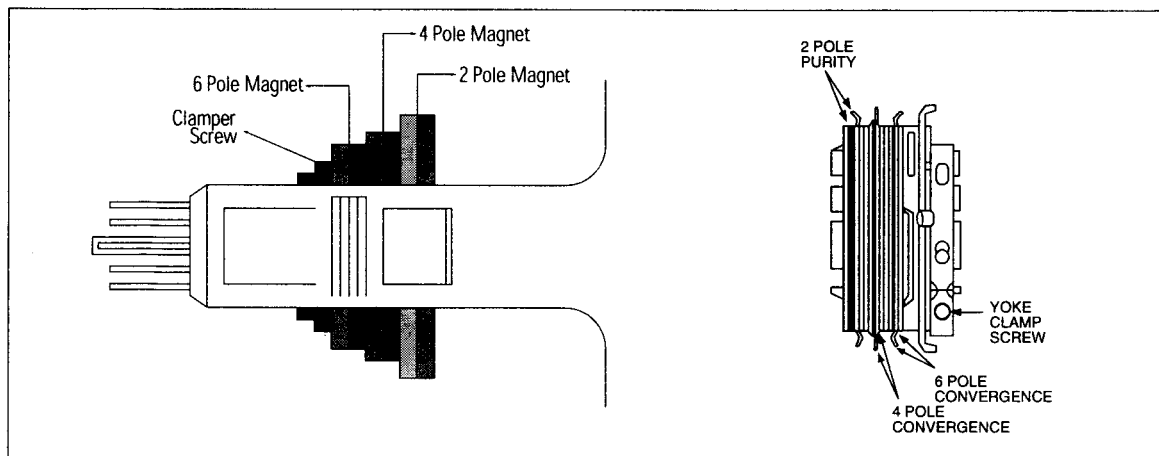


Fig. 4-2 Convergence Magnet Assembly

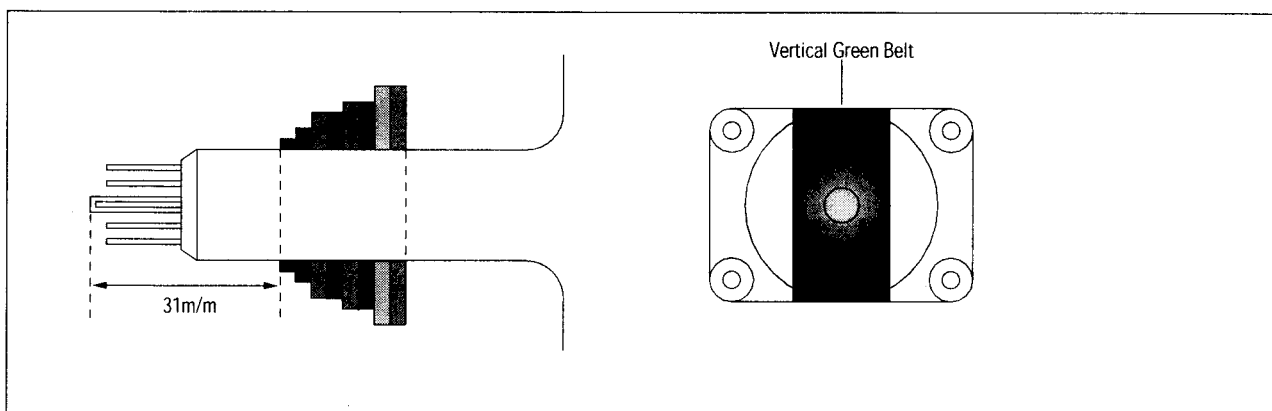


Fig. 4-3 Center Convergence Adjustment

4-3-7 White Balance Adjustment

(a) Set up

1. Warm up the TV for at least 30 minutes in the White Pattern.
2. Input a Toshiba pattern.

(b) High-Light Adjustment

Set SCT to 40 ± 5 fL in the Factory Service Mode with using CA100. (See Fig. 4-4 ①)

(c) Low-Light Adjustment

Set SBT to 1.5 ± 0.2 fL in the Factory Service Mode with using CA100. (See Fig. 4-4 ②)

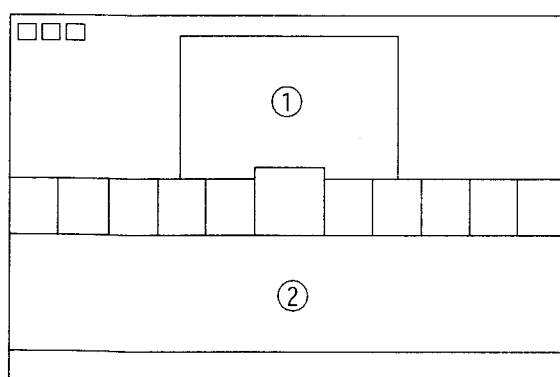


Fig. 4-4

4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-5).

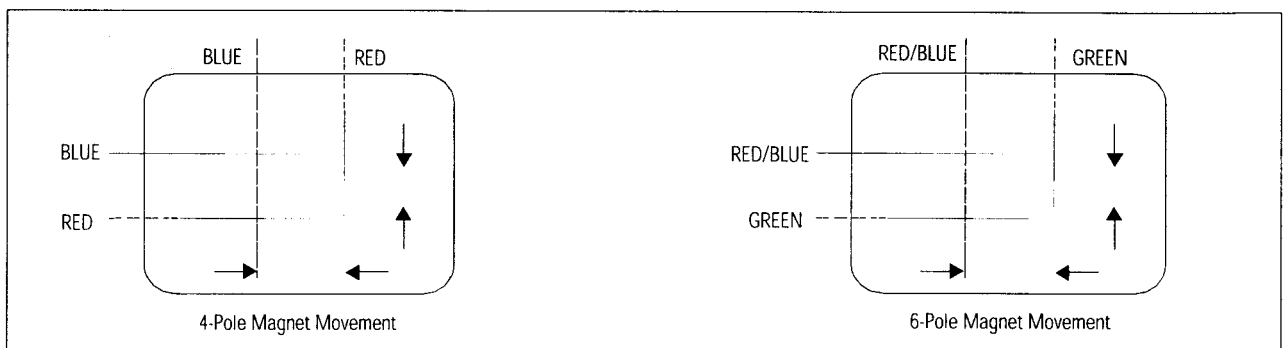


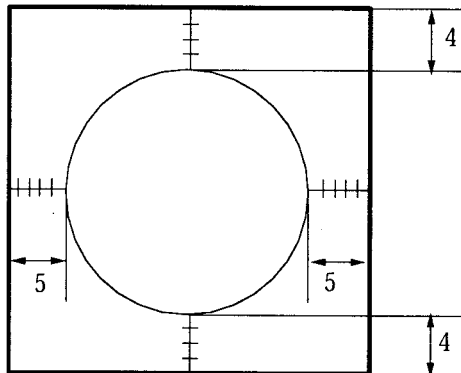
Fig. 4-5 Center Convergence Adjustment

4-3-9 RF AGC Adjustment

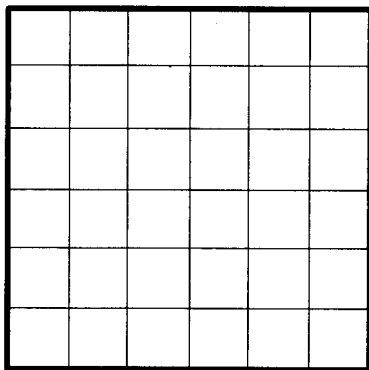
1. Tune to the strongest local station.
2. Enter the Factory Service Mode to make adjustments.
3. Adjust the AGC control until noise(snow) disappears from the screen.

4-3-10 Geometry Adjustment

1. Input a lion head pattern.
2. Adjust PVS so that the picture is vertically centered.
3. Adjust with PVA so that the top and bottom margins of the picture are 4.
4. Adjust PHS so that the picture is horizontally centered.
5. Adjust with PEW so that the left and right margins of the picture are 5.



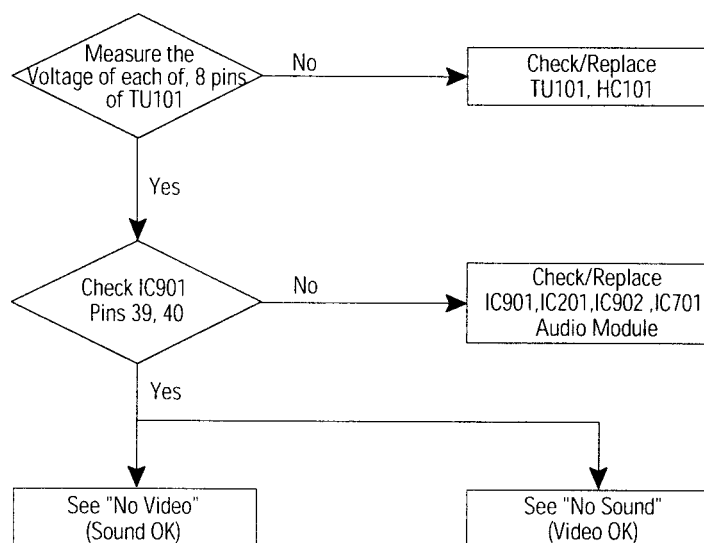
6. Input a crosshatch pattern.
7. Adjust PEP, PEC , PET for vertical linearity.



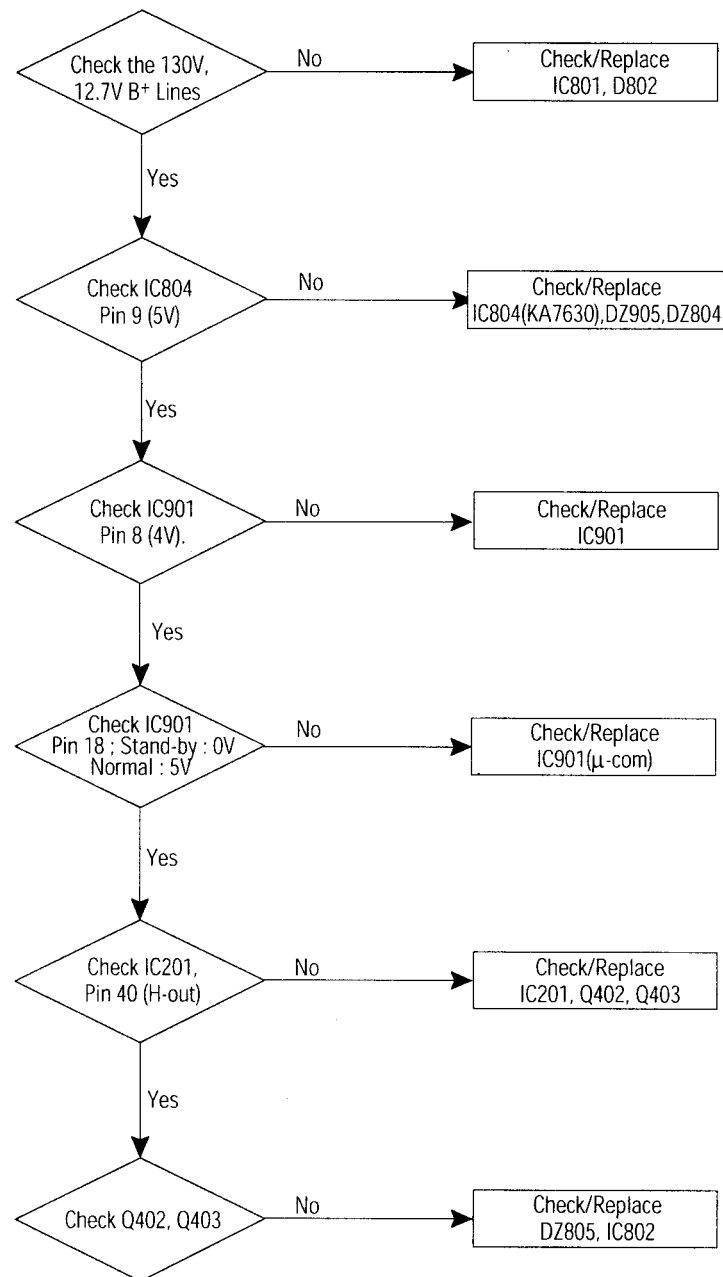
MEMO

5. Troubleshooting

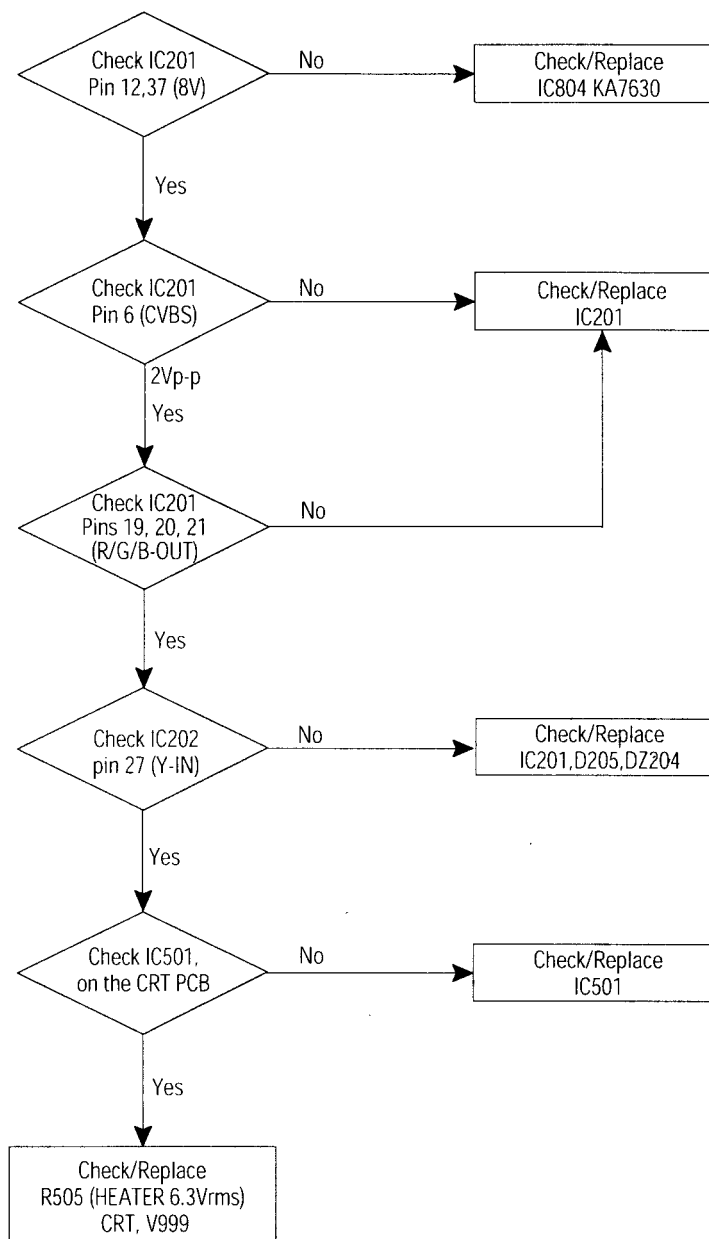
5-1 No Video (Raster On, No Sound)



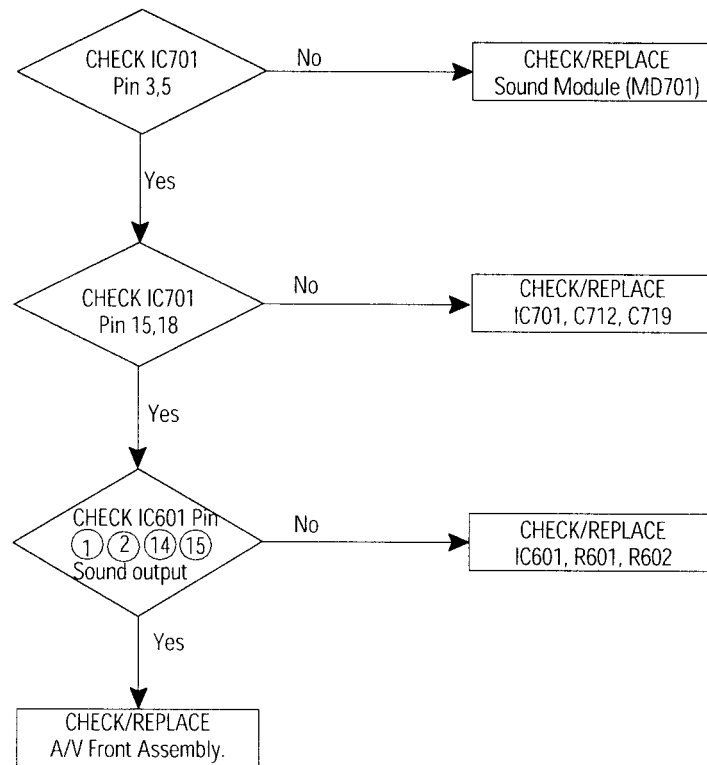
5-2 No Power



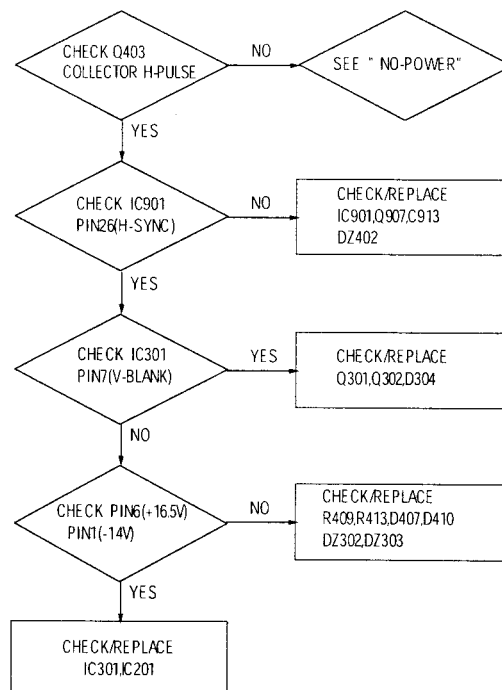
5-3 No Video (Sound OK)



5-4 No Sound (Video OK)



5-5 Power OFF/ON (Repeatedly)



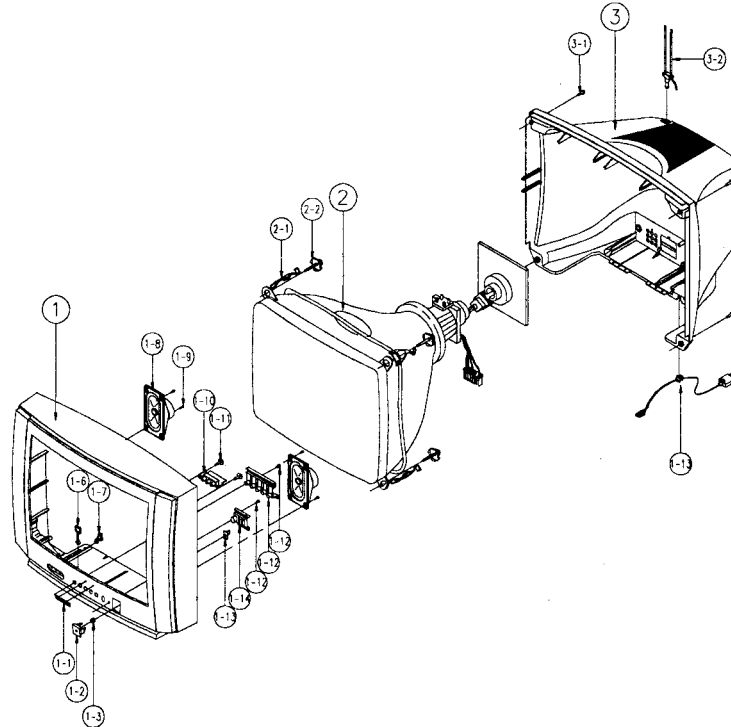
5-6 SMPS (Power Supply) Does Not Function

- (1) When F802 is open:
Check/Replace F802 , IC801 , D802.
- (2) When F802 is okay, but SMPS does not function:
Check/Replace DZ801 , DZ808 , IC802 , DZ805.
- (3) Others: See "5. Troubleshooting"

MEMO

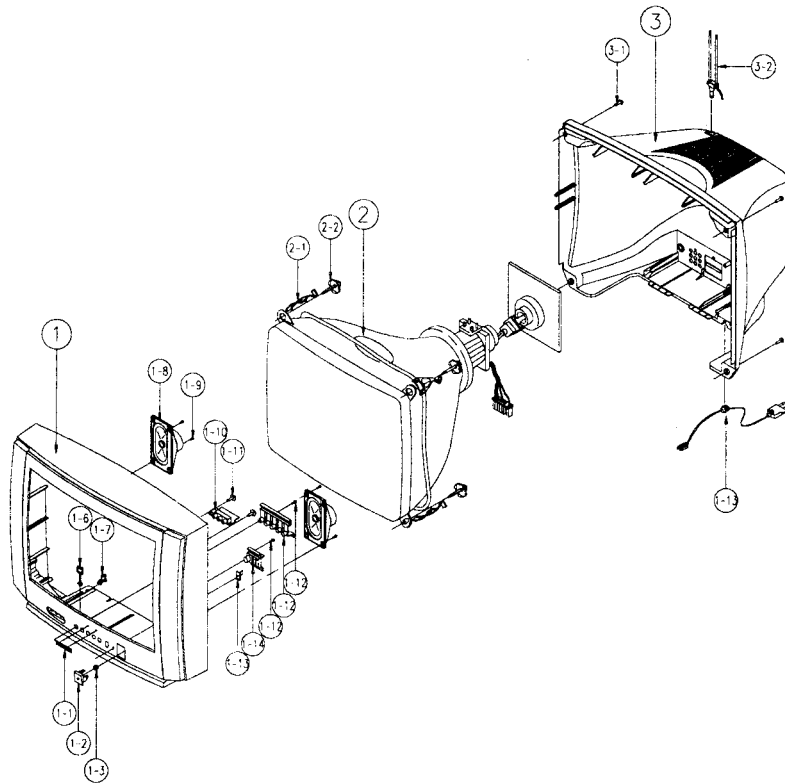
6. Exploded View & Parts List

6-1 CF21S03F3X



Loc.No	Replacement No.	Parts No.	Description;Specification	Q'ty	Remarks
1	AZ760049	HA91-00228A	ASSY-CABINET,FRONT;-;21S03,-,-,-	1	
	AZ760043	HA64-00570A	CABINET-FRONT;-;21S03,-,HIPS,HB,LIGHT-GRAY,-	1	
1-1	AZ760046	AA64-70110B	BADGE-BRAND;AL,-,SILVER,L46,TOSHIBA,-,-	1	
1-2			CABINET-FRONT;OPTION		
1-3	AZ760044	AA64-00429B	WINDOW-REMOCON;-;21S03,-,PC,V0,VIOLET,-	1	
1-4	AZ760042	HA64-00424A	KNOB-POWER;-;21S03,MA L/GRAY,ABS,HB,GRAY	1	
1-5	AZ760018	AA61-60003J	SPRING-CS;-;SUS304,0.5,0D6,H12,N7,-,-,-	1	
1-6	AZ760045	AA64-00431B	INDICATOR-LED;-;21S03,-,ACRYL,-,NTR,-	1	
1-7	AZ760050	AA65-30018A	CLAMP-WIRE;NYLON-66,-,-,DATL-600,DONG-A,-	2	
1-8	AZ760044	AA61-40113A	STOPPER-PCB;501H,HIPS,NTR,HB,-,-	1	
1-9	AZ660020	HA95-900018	ASSY-PCB,A/V FRONT;S51A,TSB	1	
1-10	AZ760039	6003-001024	SCREW-TAPTITE;RWH,+,B,M4,L12,ZPC(YEL),SWRCH1	2	
1-11	AZ760041	HA64-00425A	KNOB-CONTROL;-;21S03,L/GRAY,ABS,HB,GRAY	1	
1-12	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
2	AZ664091	AA03-00123A	CRT-COLOR;-;A51EER133X77,+400MG,21,90DE	1	
2-1	AZ760026	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20~22 INCH,-	4	
2-2	AZ760040	AA60-10051D	SCREW-ASSY;WC,HH,+,M5,30,SWRCH18A,ZPC,-	4	
2-3	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	6	
2-4			CABINET-FRONT;OPTION		
2-5	AZ664096	3001-000280	SPEAKER;5W,160HM,90DB,150HZ	2	
2-6			SPEAKER;OPTION		
3	AZ760036	HA64-00573A	CABINET-BACK;-;21S03,-,HIPS,V0,BLK,-,-	1	
3-1	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	6	
3-2			ASSY-ACCESSORY OPTION		
4	AZ664044	AA61-20284A	HOLDER;-;P-CORD,PP,V0,BLK,KE-002	1	

6-2 CX21S03D3X



Loc.No	Replacement No.	Parts No.	Description;Specification	Q'ty	Remarks
1	AZ760049	HA91-00228A	ASSY-CABINET,FRONT;-;21S03;-;-	1	
	AZ760043	HA64-00570A	CABINET-FRONT;-;21S03;-;HIPS,HB,LIGHT-GRAY,-	1	
1-1	AZ760046	AA64-70110B	BADGE-BRAND;AL;-;SILVER,L46,TOSHIBA;-;	1	
1-2			CABINET-FRONT;OPTION		
1-3	AZ760044	AA64-00429B	WINDOW-REMOCON;-;21S03;-;PC,VO,VIOLET,-	1	
1-4	AZ760042	HA64-00424A	KNOB-POWER;-;21S03,MA L/GRAY,ABS,HB,GRAY	1	
1-5	AZ760018	AA61-60003J	SPRING-CS;-;SUS304,0.5,0D6,H12,N7;-;-	1	
1-6	AZ760045	AA64-00431B	INDICATOR-LED;-;21S03;-;ACRYL;-;NTR,-	1	
1-7	AZ760050	AA65-30018A	CLAMP-WIRE;NYLON-66;-;-DATL-600,DONG-A,-	2	
1-8	AZ760044	AA61-40113A	STOPPER-PCB;501H,HIPS,NTR,HB;-;-	1	
1-9	AZ660020	HA95-900018	ASSY-PCB,A/V FRONT;S51A,TSB	1	
1-10	AZ760039	6003-001024	SCREW-TAPTITE;RW,+,B,M4,L12,ZPC(YEL),SWRCH1	2	
1-11	AZ760041	HA64-00425A	KNOB-CONTROL;-;21S03,L/GRAY,ABS,HB,GRAY	1	
1-12	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
2	AZ664091	AA03-00123A	CRT-COLOR;-;A51EER133X77,+400MG,21,90DE	1	
2-1	AZ760026	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR;-;20-22 INCH,-	4	
2-2	AZ760040	AA60-10051D	SCREW-ASSY;WC,HH,+,M5,30,SWRCH18A,ZPC,-	4	
2-3	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	6	
2-4			CABINET-FRONT;OPTION		
2-5	AZ664096	3001-000280	SPEAKER;5W,160HM,90DB,150HZ	2	
2-6			SPEAKER;OPTION		
3	AZ760036	HA64-00573A	CABINET-BACK;-;21S03;-;HIPS,VO,BLK;-;	1	
3-1	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	6	
3-2			ASSY-ACCESSORY OPTION		
4	AZ664044	AA61-20284A	HOLDER;-;P-CORD,PP,VO,BLK,KE-002	1	

7. Electrical Parts List

7-1 CF21S03F3X/TSB

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
ASSY-PCB,MAIN									
* HA94-01739A AZ660022 ASSY-PCB,MAIN(OPT),CF21S03F3X,S51A,TSB,SEB									
D201	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,	
D202	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ904	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,	
D203	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ403	0403-000698	AZ461012	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-41	
D204	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ306	0403-000700	AZ461013	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,TP	
D207	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		BOT	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,	
D210	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ809	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,	
D217	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q209	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-	
D302	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q404	0501-000369	AZ561002	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-	
D303	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q201	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D304	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q202	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D602	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q204	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D804	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q207	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D809	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q210	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D810	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q301	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D901	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q302	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D906	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q701	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D907	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q702	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D402	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q901	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D403	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q905	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D520	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q907	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D801	0402-000213	AZ462006	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41,TP		Q908	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D805	0402-000231	AZ462007	DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F,ST		QT01	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
D807	0402-000233	AZ462008	DIODE-RECTIFIER;FML-G12S,200V,5A,-,-		Q403	0502-001115	AZ561006	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST,8-	
DZ09	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		Q902	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D407	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		Q903	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D401	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		Q904	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D410	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		QT02	0504-000125	AZ561008	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP	
D806	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		IC802	0604-001038	AZ661001	PHOTO-COUPLER;TR,130-260%,200MW,DIP-4,ST	
D813	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		IC902	1103-001043	AZ661003	IC-EEPROM;24C16,2Kx8BIT,DIP8P,300MIL,10	
D301	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC601	1201-001064	AZ661005	IC-POWER AMP;7297,ZIP,15P,-,DUAL,32DB,PLAST	
D406	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC501	1201-001330	AZ661008	IC-VIDEO AMP;6108,ZSIP,9P,-,SINGLE,-,PLASTI	
D507	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		DZ901	1203-000451	AZ661009	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,	
D508	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC804	1203-000644	AZ661011	IC-POSIFIXED REG.;7630,SIP,10P,-,PLASTIC,5.1/8V,	
D509	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC803	1203-001006	AZ661012	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4	
D803	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		DZ805	1203-001217	AZ661013	IC-POSIFIXED REG.;431,TO-92,3P,4.58MIL,PLASTIC,2	
D802	0402-001160	AZ462015	DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST		IC801	1203-001494	AZ661014	IC-PWM CONTROLLER;350680RF,TO3PF-5L,5,210,PLASTI	
D601	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		IC903	1203-001752	AZ661015	IC-POSIFIXED REG.;LF33CV,TO-220,3P,-,PL	
DZ802	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		IC701	1204-000473	AZ661017	IC-AUDIO PROCESSOR;TDA9859,DIP,32P,-,PLASTIC,-,-	
DZ803	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		IC301	1204-000517	AZ661018	IC-VERTICAL DEF.;LA7845,SIP,7P,-,PLASTIC,40V,11	
DZ804	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		IC201	1204-001440	AZ661019	IC-VIDEO SYSTEM;TDA8842,DIP,56P,300MIL,PLASTIC	
DZ807	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		RP803	1404-001048	AA664039	THERMISTOR-PTC;70ohm,30%,200/220V,270V,19A,-,B	
DZ905	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		DV801	1405-000187	AA664040	VARISTOR;750V,1250A,12.5x7mm,TP	
DZ906	0403-000296	AZ461001	DIODE-ZENER;MTZ5 6B,5.6V,5.45-5.73V,500mW,		DV802	1405-000187	AA664040	VARISTOR;750V,1250A,12.5x7mm,TP	
DZ201	0403-000297	AZ461002	DIODE-ZENER;MTZ6 2B,6.2V,5.96-6.27V,500mW,		RT04	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ202	0403-000297	AZ461002	DIODE-ZENER;MTZ6 2B,6.2V,5.96-6.27V,500mW,		R212	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ203	0403-000298	AZ461003	DIODE-ZENER;MTZ6 2B,6.2V,5.96-6.27V,500mW,		R237	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ402	0403-000300	AZ461004	DIODE-ZENER;MTZ8 2B,8.2V,7.78-8.19V,500mW,		RT25	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ801	0403-000300	AZ461004	DIODE-ZENER;MTZ8 2B,8.2V,7.78-8.19V,500mW,		R255	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ305	0403-000494	AZ461006	DIODE-ZENER;MTZ39,39V,35.36-37.2V,500mW,DO		R303	2001-000016	AZ262010	R-CARBON(S);10HM,5%,1/2W,AA,TP,2.4x6.4MM	
DZ302	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		J817	2001-000019	AZ262100	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ303	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		R412	2001-000020	AZ262220	R-CARBON(S);22ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ304	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		R828	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ601	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		R903	2001-000066	AZ262103	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ602	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		R911	2001-000214	AZ261112	R-CARBON;1.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ603	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		RT19	2001-000232	AZ261132	R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ604	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,		R908	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R941	0403-000551	AZ461008	DIODE-ZENER;MTZ3 9B,3.9V,3.89-4.16V,500mW,		R913	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ808	0403-000562	AZ461009	DIODE-ZENER;MTZ7 5B,7.5V,7.07-7.45V,500mW,		DZ205	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ505	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,		R246	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ701	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,		R920	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ702	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,		R220	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ703	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,		R221	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ704	0403-000563	AZ461010	DIODE-ZENER;MTZ9 1B,9.1V,8.57-9.01V,500mW,		R247	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
					R251	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
					R259	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
					R314	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
					R701	2001-000281	AZ261101	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	

Electrical Parts List

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
R702	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R705	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R728	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R729	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R953	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R954	2001-000281	AZ261101	R-CARBON;1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R201	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R203	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R204	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R260	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R307	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R309	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R315	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R603	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R722	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R727	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R731	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R732	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R819	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R822	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R901	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R902	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R919	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R921	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R923	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R261	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R604	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R712	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R219	2001-000343	AZ261131	R-CARBON;130ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R310	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R720	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R723	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R224	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R241	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R249	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R501	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R502	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R503	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R605	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R726	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R730	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R813	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R922	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R942	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R955	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT03	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT07	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R313	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R317	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R814	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R912	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R933	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R934	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R936	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R948	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R951	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R914	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R507	2001-000490	AZ261201	R-CARBON;2000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R508	2001-000490	AZ261201	R-CARBON;2000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000490	AZ261201	R-CARBON;2000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R707	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT22	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT23	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT24	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000527	AZ261220	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT06	2001-000539	AZ261243	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R252	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Replacement No	Parts No	Description ; Specification	Remarks
R257	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R253	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R223	2001-000617	AZ261395	R-CARBON;3.9Mohm,5%,1/8W,AA,TP,1.8x3.2m	
R930	2001-000628	AZ261301	R-CARBON;3000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R311	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R316	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R716	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R736	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R918	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R924	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R945	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT01	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT02	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT20	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R215	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R233	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R234	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R235	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R932	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R935	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT05	2001-000780	AZ261471	R-CARBON;4700OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R202	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R312	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R724	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R214	2001-000793	AZ261470	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
R226	2001-000793	AZ261470	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
R248	2001-000793	AZ261470	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
R943	2001-000793	AZ261470	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
R236	2001-000832	AZ261511	R-CARBON;5100HM,5%,1/8W,AA,TP,1.8X3.2MM	
R910	2001-000924	AZ261681	R-CARBON;6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
R925	2001-000924	AZ261681	R-CARBON;6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
R926	2001-000924	AZ261681	R-CARBON;6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
R250	2001-000938	AZ261680	R-CARBON;68ohm,5%,1/8W,AA,TP,1.8x3.2m.n	
R709	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R713	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R715	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R725	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R733	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R734	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R735	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R262	2001-001015	AZ261912	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R225	2001-001026	AZ261911	R-CARBON;910ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L403	2001-001037	AZ262398	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R421	2001-001043	AZ262000	R-CARBON(S);00HM,5%,1/2W,AA,TP,2.4x6.4MM	
R424	2001-001043	AZ262000	R-CARBON(S);00HM,5%,1/2W,AA,TP,2.4x6.4MM	
R425	2001-001043	AZ262000	R-CARBON(S);00HM,5%,1/2W,AA,TP,2.4x6.4MM	
R430	2001-001043	AZ262000	R-CARBON(S);00HM,5%,1/2W,AA,TP,2.4x6.4MM	
R301	2001-001049	AZ262132	R-CARBON(S);1.3Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R302	2001-001049	AZ262132	R-CARBON(S);1.3Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R520	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R937	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R410	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R420	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R824	2001-001125	AZ262304	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R804	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R805	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R411	2001-001153	AZ262470	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4x6.4MM	
R826	2001-001153	AZ262470	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4x6.4MM	
R807	2001-001178	AZ262681	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R510	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R517	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R518	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R519	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R801	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R808	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R809	2002-001013	AZ263006	R-COMPOSITION;4.7Mohm,10%,1/2W,AA,TP,3.7x9mm	
R806	2003-000458	AZ263007	R-METAL OXIDE(S);100ohm,5%,2W,AF,TP,4x12mm	
R811	2003-000462	AZ263008	R-METAL OXIDE(S);10Kohm,5%,2W,AA,TP,4x12mm	
R404	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R423	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R802	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R803	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R308	2003-000998	AZ263016	R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10mm	
R407	2003-001025	AZ263017	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x10mm	
R406	2003-002008	AZ263022	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x10mm	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R305	2003-002009	AZ263023	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x10mm	
R304	2003-002070	AZ263024	R-METAL OXIDE,1ohm,5%,2W,AF,TP,3.9x10mm	
R904	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R905	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R906	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R909	2004-001126	AZ263028	R-METAL;6.2KOHM,1%,1/8W,AA,TP,1.8X3.2M	
R256	2004-001234	AZ263029	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R419	2004-001390	AZ263031	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R258	2004-001914	AZ263032	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R418	2004-001967	AZ263033	R-METAL(S);68KOHM,1%,1/2W,AA,TP,6.5X2.5MM	
R816	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R417	2004-004086	AZ263036	R-METAL;56Kohm,1%,1/2W,AA,TP,2.5x6.5mm	
R815	2004-004089	AZ263037	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5M	
R413	2008-000251	AZ263040	R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10mm	
R505	2008-000254	AZ263041	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
R409	2008-000264	AZ263042	R-FUSIBLE(S);10HM,5%,1W,AF,TP,3.9X10MM	
R415	2008-000266	AZ263044	R-FUSIBLE(S);10HM,5%,2W,AF,TP,3.9X10MM	
R414	2008-000278	AZ263046	R-FUSIBLE(S);82ohm,5%,2W,AA,TP,3.9x10mm	
R820	2008-000294	AZ263047	R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm	
R506	2008-000299	AZ263048	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm	
R821	2008-001086	AZ263052	R-FUSIBLE(S);3.3ohm,5%,2W,AG,TP,3.9x12mm	
R601	2008-001109	AZ263054	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12mm	
R602	2008-001109	AZ263054	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12mm	
R810	2008-002173	AZ263055	R-FUSIBLE(S);7.5KOHM,5%,2W,AG,TP,3.9x12mm	
RW9012011-000157	AZ263056	R-NETWORK;10K,5%,1/8W,A,SIP,6P,TP		
C903	2201-000119	AZ163001	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5	
C303	2201-000192	AZ163002	C-CERAMIC,DISC;10pF,0.3pF,500V,CH,TP,7x4.5	
C901	2201-000234	AZ163004	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3.5	
C228	2201-000273	AZ163006	C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5	
C804	2201-000332	AZ163008	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7.7	
C805	2201-000332	AZ163008	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7.7	
C812	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8,10m	
C813	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8,10m	
C409	2201-000551	AZ163010	C-CERAMIC,DISC;470pF,10%,1KV,Y5P,TP,8x5.5	
C418	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C423	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C412	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C817	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C819	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C822	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C814	2201-000683	AZ163014	C-CERAMIC,DISC;850pF,10%,1KV,Y5P,TP,10x5.5	
C916	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm	
C917	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm	
C407	2201-000984	AZ163016	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6,7.5m	
J815	2701-000114		INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
C227	2201-000986	AZ163017	C-CERAMIC,DISC;12pF,5%,50V,NPO,TP,5x3mm,2.5mm	
C530	2201-002063	AZ163019	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,16x5.7	
CT05	2202-000164	AZ161181	C-CERAMIC,MLC-AXIAL;180PF,10%,50V,Y5P,TP,5X19,-,TP	
C231	2202-000183	AZ161222	C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5X19,-	
C730	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5X19,-	
C731	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5X19,-	
C732	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5X19,-	
C733	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5X19,-	
C703	2202-000243	AZ161330	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X19,-,TP	
C109	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X19,-	
C232	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X19,-	
C910	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X19,-	
C911	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X19,-	
C921	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X19,-	
C242	2202-000806	AZ161221	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y5P,TP,3.5*19,-	
RT17	2202-000825	AZ161681	C-CERAMIC,MLC-AXIAL;680pF,10%,50V,Y5P,TP,3.5X19,-	
C235	2202-000849	AZ161999	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.5x1.9	
C504	2202-000862	AZ161391	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,-	
C103	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C104	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C105	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C223	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C224	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C225	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C236	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C701	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C704	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C907	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C908	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C909	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C919	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C923	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
C925	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C926	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C927	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
CT03	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
CT04	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
CT11	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C902	2301-000108	AZ162001	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,	
C721	2301-000175	AZ162002	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m	
C723	2301-000175	AZ162002	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m	
C230	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C604	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C506	2301-000213	AZ162005	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5	
C213	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C244	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C306	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C809	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C821	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C713	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C718	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C301	2301-000254	AZ162008	C-FILM,PEF;39nF,5%,50V,TP,7.5x3.5x6.5mm,5	
C714	2301-000289	AZ162009	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3.5	
C717	2301-000289	AZ162009	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3.5	
C811	2301-000310	AZ162010	C-FILM,PEF;68nF,5%,50V,TP,8.0x8.5x4.0x5.5	
C229	2301-000356	AZ162011	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
C238	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
B0T R62301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		
B0T R62301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		
C239	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C913	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C807	2303-000163	AZ162015	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7.5	
C305	2305-000149	AZ162016	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5	
C425	2305-000154	AZ162017	C-FILM,MPEF;100nF,5%,400V,TP,21.5x5.5x11.5	
C411	2305-000178	AZ162018	C-FILM,MPEF;10nF,5%,100V,TP,-,5mm	
C304	2305-000285	AZ162020	C-FILM,MPEF;220nF,5%,100V,TP,20x18x11.5,15	
C221	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C234	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C705	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C722	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C725	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C727	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C824	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
CT08	2305-000354	AZ162022	C-FILM,MPEF;330nF,5%,50V,TP,7.3x4.8x5.5MM,	
C408	2305-000382	AZ162023	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5MM	
C218	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C215	2305-000412	AZ162025	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
C222	2305-000412	AZ162025	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
C217	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C237	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C245	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C830	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C905	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C906	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
CT01	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
C210	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C422	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C709	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C825	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C415	2306-000253	AZ166002	C-FILM,MPPF;7.2nF,5%,1.6KV,TP,28.5x18.5x12	
C801	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-,22.5mm	
C802	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-,22.5mm	
C406	2306-000350	AZ166004	C-FILM,MPPF;270nF,5%,400V,BK,26x18.5x10,20	
C233	2309-000138	AZ162030	C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8.5,7.5mm	
C835	2401-000142	AZ164003	C-AL;1000uF,20%,16V,WT,TP,10x20.5	
CT02	2401-000242	AZ164004	C-AL;100uF,20%,10V,GP,TP,6X11.5MM	
C816	2401-000293	AZ16-5002	C-AL;100uF,+30-10%,200V,HR,TP,16x25	
C220	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C707	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C710	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C829	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C922	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C302	2401-000360	AZ164006	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C307	2401-000360	AZ164006	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C510	2401-000430	AZ165004	C-AL;10uF,20%,250V,GP,TP,10x16MM,5M	
C225	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C308	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C712	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C719	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	

Electrical Parts List

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc. No.	Replacement No	Parts No	Description ; Specification	Remarks
C831	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		L904	2701-000211	AZ361014	INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm	
C904	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		L101	2701-000326	AZ361017	INDUCTOR-AXIAL;560nH,10%,2.3x3.4mm	
C920	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		L805	2701-001032	AZ361018	INDUCTOR-AXIAL;100uH,10%,5X14MM	
C924	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		X203	2801-000226	AZ663001	CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF	
C828	2401-000493	AZ164010	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm		XT01	2801-003433	AZ663003	CRYSTAL-UNIT;12MHz,30ppm,28-AAM,30pF,30ohm	
C241	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5		X202	2801-003726	AZ663004	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAM,20pF	
C243	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5		C602	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C214	2401-000660	AZ164013	C-AL;2.2uF,20%,50V,GP,TP,5x11,5		C606	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C818	2401-000722	AZ164014	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5		L501	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C820	2401-000722	AZ164014	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5		L603	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C226	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5		L806	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C413	2401-000962	AZ164017	C-AL;22uF,20%,50V,GP,TP,5x11,5		R823	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C207	2401-001026	AZ164018	C-AL;3.3uF,20%,50V,GP,TP,5x11mm,5mm		L804	2901-000299	AZ362002	FILTER-EMI ON BOARD;-.6A,UL/CSA,-.9x7.5,TP-	
C106	2401-001082	AZ164019	C-AL;330nF,20%,50V,GP,TP,5x11,5		L702	2901-000299	AZ362002	FILTER-EMI ON BOARD;-.6A,UL/CSA,-.9x7.5,TP-	
C520	2401-001232	AZ165009	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5		Z208	2903-000181	AZ664001	FILTER-CERAMIC;TR,5.5MHz,-,TP,TPSS.5MB-TF	
C603	2401-001333	AZ164022	C-AL;470nF,20%,50V,GP,TP,5x11,5		SF101	2904-000302	AZ664007	FILTER-SAW AV;38.90MHz,-,ST,13.9dB,PAL-B/G,-	
C410	2401-001397	AZ164024	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T		J206	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
C419	2401-001397	AZ164024	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T		L601	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
C219	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		L802	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
C702	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		L803	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
C833	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		L807	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
C914	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		L808	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
CT06	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		SW8013403-000179	AZ662011	SWITCH-PUSH;250V,5A,DPST,-,JPW-2104B		
C424	2401-001527	AZ165010	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m		SW9013404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
C216	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		SW9023404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
C240	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		SW9033404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
C309	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		SW9043404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
C823	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		SW9053404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
C826	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		F801	3601-000281	AZ664011	FUSE-FERRULE;250V,4A,TIME LAG,GLASS,5x20mm	
C832	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		F804	3601-001057	AZ664012	FUSE-FERRULE;250V,630MA,SB,GLASS,5.2X20MM	
C715	2401-001991	AZ164028	C-AL;2.2uF,20%,50V,GP,TP,5x11,5		R830	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
C716	2401-001991	AZ164028	C-AL;2.2uF,20%,50V,GP,TP,5x11,5		R831	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
C607	2401-001998	AZ164029	C-AL;1000uF,20%,25V,GP,TP,10X20,5MM		F801A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C711	2401-002235	AZ164031	C-AL;100uF,20%,16V,GP,TP,5X11MM,5MM		F801B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C720	2401-002235	AZ164031	C-AL;100uF,20%,16V,GP,TP,5X11MM,5MM		F804A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C827	2401-002235	AZ164031	C-AL;100uF,20%,16V,GP,TP,5X11MM,5MM		F804B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C405	2401-002268	AZ165011	C-AL;2.2uF,20%,250V,LZ,TP,8X11,5		V999	3704-001105	AZ664016	SOCKET-CRT;11P,20PI,26.5PI,NL-	
C601	2401-002269	AZ164032	C-AL;2.2uF,20%,50V,BP,TP,10x16mm,5m		CN901A3711-002643	AZ664018	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGHT,SN		
C605	2401-002269	AZ164032	C-AL;2.2uF,20%,50V,BP,TP,10x16mm,5m		CN6023711-002644	AZ664019	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,STRAIGHT,SN		
C808	2401-002292	AZ164034	C-AL;47uF,20%,25V,WT,TP,8X11,5		CN6023711-002644	AZ664019	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,STRAIGHT,SN		
C102	2401-002594	AZ164036	C-AL;220uF,20%,16V,GP,TP,8x11,5.5		CN7013711-002647	AZ664020	CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN		
C107	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5		CN7013711-002647	AZ664020	CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN		
C211	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5		JE01	3722-000143	AZ664027	JACK-PHONE;1P(VER);3.4mm,AG,BLK,NO	
C421	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5		JA701	3722-000195	AZ664029	JACK-SCART;42P,-,SN,BLK,NO	
C806	2401-003025	AZ165013	C-AL;330uF,20%,400V,GP,ST,30x40,10		JR01	3722-001031	AZ664031	JACK-RCA;3P,3.6MM,#18,AU	
C815	2401-003026	AZ165014	C-AL;330uF,20%,200V,GP,ST,22x35,10		IC901	AA09-00015A	AZ661024	IC-MCU;OPM-511EE(0092)52P,ST,8BIT,-1	
CW9012503-000156	AZ166005	C-NETWORK;100pFx4,20%,50V		HC101	AA13-20004W	AZ661025	IC-HYBRID;-.PAP103T,SIP6P,PRE-AMP,TP		
CW7012503-000161	AZ166006	C-NETWORK;331*8		T801	AA26-20007W	AZ663002	TRANS-SWITCHING;-.90-260V,130/15.5/12/8V,VDE,S		
J961	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		T444	AA26-30005Y	AZ363004	TRANS-FLYBACK;-.FSV-20B0001A,20,125V	
L102	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		T401	AA26-50001B	AZ363005	HORIZ.DRIVE;-.7,1MH,102UH,10-20UH,YL081,ST	
L103	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		CN802AA27-20003Z	AZ362004	COIL-DEGAUSSING;-.21,13.5ohm,25TL,2380,E		
L205	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		L402	AA27-30001B	AZ362005	COIL-LINEARITY;-.195UH,QIC1010,PI0,4.4,5X21.5	
L207	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		L401	AA27-40003G	AZ362007	COIL-HORIZ,WIDTH;-.90/260UH,SB-S5056*20,PI0,12X	
L303	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		L801	AA29-30001Q	AZ362009	FILTER-LINE;-.20MH,1.26A,-,BSF3050	
L701	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		GT804-AA39-20010B	AZ664050	LEAD-CONNECTOR,ASSY;-.YFH800-01,S,1P,500,1617#22		
L702	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		GT404-AA39-20010D	AZ664051	LEAD-CONNECTOR,ASSY;-.YFH800-01,S,1P,400,1617#22		
L703	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		CN01AAA39-20068E	AZ664054	LEAD-CONNECTOR,ASSY		
L704	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM				-.YBNH025-08,67096-008,8P,500,		
L705	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		CN05AAA39-20069A	AZ664055	LEAD-CONNECTOR,ASSY		
L706	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM				-.YBNH025-05,67096-005,5P,500,		
L707	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		CN06AAA39-20499B	AZ664058	LEAD CONNECTOR,ASSY		
L708	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM				-.YBNH025-04,SMP025-04,4P,200,		
L709	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		CN501BAA39-20604A	AZ660010	LEAD CONNECTOR-ASSY;-.YBNH250-		
L710	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM				09,YBNH05/04,5/4P,50		
L905	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		TU101	AA40-00007A	AZ664033	TUNER-V/S;TECC0949VG29A(S),PAL-B/G,-,181	
L906	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		PCB	AA41-10971E	AZ660011	PCB-MAIN;S51A,1L,FR-1,330X245X1.6T,1A,-	
L907	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		RM901AA59-60001U	AZ664034	MODULE-REMOCON;-.ORC-50VF/SR-12V,38KH,940nm,		
R740	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM		LD901	AA96-30001B	AZ664087	ASSY-LED,GUIDE;-.AA61-50055A,DL-G5RGA,-	
R741	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM						
R927	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM						
R928	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM						
R929	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5X3.4MM						
L208	2701-000142	AZ361004	INDUCTOR-AXIAL;1uH,10%,2.5X3.4MM						
R222	2701-000142	AZ361004	INDUCTOR-AXIAL;1uH,10%,2.5X3.4MM						
L901	2701-000189	AZ361011	INDUCTOR-AXIAL;470NH,10%,2.5X3.4MM						
L202	2701-000197	AZ361012	INDUCTOR-AXIAL;5.6uH,10%,2.5X3.4MM						
L903	2701-000197	AZ361012	INDUCTOR-AXIAL;5.6uH,10%,2.5X3.4MM						

ASSY-SOUND

* AA95-00370 AAZ660024ASSY-SOUND,DP,AA95-40012A,S51A,SECAM-L,LI

DN01 0401-000160 AZ462002 DIODE-SWITCHING;ISS314,30V,100mA,USC,TP

DN02 0401-000160 AZ462002 DIODE-SWITCHING;ISS314,30V,100mA,USC,TP

DN03 0405-001055 AZ462016 DIODE-VARACTOR;BB454,30V,100mA,SOD-323,TP

ASSY-SOUND

* AA95-00370 AAZ660024 ASSY-SOUND; DP,AA95-40012A,S51A,SECAM-L,LI

DN01 0401-000160 AZ462002 DIODE-SWITCHING;ISS314,30V,100mA,USC,TP
 DN02 0401-000160 AZ462002 DIODE-SWITCHING;ISS314,30V,100mA,USC,TP
 DN03 0405-001055 AZ462016 DIODE-VARACTOR,BB545,30V,10NA,SOD-323,TP

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
QN01	0501-000727	AZ561004	TR-SMALL SIGNAL,BC848C,NPN,310mW,SOT-23,		LN06	2701-000114	AZ361001	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
QN02	0501-000727	AZ561004	TR-SMALL SIGNAL,BC848C,NPN,310mW,SOT-23,		LN03	2701-000168	AZ361008	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
QN03	0501-000727	AZ561004	TR-SMALL SIGNAL,BC848C,NPN,310mW,SOT-23,		LN07	2701-000202	AZ361013	INDUCTOR-AXIAL;560nH,10%,2.5x3.4mm	
QN04	0501-000727	AZ561004	TR-SMALL SIGNAL,BC848C,NPN,310mW,SOT-23,		XN01	2801-003316	AZ663002	CRYSTAL-UNIT;24.576MHZ,30PPM,28-AAAM,20PF	
QN05	0501-000727	AZ561004	TR-SMALL SIGNAL,BC848C,NPN,310mW,SOT-23,		LN01	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5x5,TP-	
ICN01	1209-000218	AZ661021	IC-PLL;TDA9814T,SOP,28P,-,PLASTIC,5.5		LN02	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5x5,TP-	
ICN02	1209-001113	AZ661022	IC-ETC, LINEAR;TDA9874H,QFP44P,-,PLASTI		LN04	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5x5,TP-	
JN01	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012		LN05	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5x5,TP-	
JN02	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012		SFN02	2904-000259	AZ664005	FILTER-SAW AV;38.9MHz,SIP5PST,15dB,PAL-	
RN08	2007-000030	AZ260002	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		SFN01	2904-000301	AZ664006	FILTER-SAW AV;38.90MHz,SIP5K,ST,14.5dB,P	
RN21	2007-000290	AZ260003	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		CNN01	3711-002704	AZ664024	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	
RN22	2007-000290	AZ260003	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		CNN02	3711-002705	AZ664025	CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGL	
RN15	2007-000300	AZ260004	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		TN01	AA26-10004E	AZ664032	TRANS-IF,-,7MG,VIF,-,7mm,8pF,116.7MHz,S	
RN25	2007-000300	AZ260004	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		HN01	AA61-10068A	AZ664035	BRACKET-PCB;-.M2160,SPT,TO 3,-,-,-	
RN12	2007-000308	AZ260005	R-CHIP;100HM,5%,1/10W,DA,TP,2012		ASSY-PCB,A/V FRONT				
RN13	2007-000308	AZ260005	R-CHIP;100HM,5%,1/10W,DA,TP,2012		* HA95-900018 AZ660020 ASSY-PCB,A/V FRONT;S51A,TSB				
RN19	2007-000308	AZ260005	R-CHIP;100HM,5%,1/10W,DA,TP,2012		RA01	2001-001074	AZ262131	R-CARBON(S);130OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RN20	2007-000308	AZ260005	R-CHIP;100HM,5%,1/10W,DA,TP,2012		RA02	2001-001074	AZ262131	R-CARBON(S);130OHM,5%,1/2W,AA,TP,2.4X6.4MM	
RN26	2007-000308	AZ260005	R-CHIP;100HM,5%,1/10W,DA,TP,2012		CA02	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
RN10	2007-000586	AZ260006	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		CA03	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
RN11	2007-000586	AZ260006	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		CA04	2202-000720	AZ161822	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP	
RN09	2007-000766	AZ260007	R-CHIP;330OHM,5%,1/10W,DA,TP,2012		CA05	2202-000720	AZ161822	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP	
RN03	2007-000774	AZ260008	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		CA06	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
RN28	2007-000774	AZ260008	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		CA07	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
RN30	2007-000774	AZ260008	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		LA02	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
RN15	2007-000830	AZ260009	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012		LA03	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
RN17	2007-000830	AZ260009	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012		LA04	2701-000180	AZ361009	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM	
RN14	2007-000881	AZ260010	R-CHIP;4.7OHM,5%,1/10W,DA,TP,2012		LA05	2701-000180	AZ361009	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM	
RN23	2007-000881	AZ260010	R-CHIP;4.7OHM,5%,1/10W,DA,TP,2012		JE01	3722-000143	AZ664027	JACK-PHONE,1P(VER);3.4mm,AG,BLK,NO	
RN01	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		JR01	3722-001031	AZ664031	JACK-RCA;3P;3.6MM,#18,8AU	
RN05	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		CN01	AAA39-20068E	AZ664054	LEAD-CONNECTOR,ASSY	
RN27	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012					;-YBNH025-08,67096-008,8P,500,	
RN29	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		CN05	AAA39-20069A	AZ664055	LEAD-CONNECTOR,ASSY	
RN07	2007-000981	AZ260012	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012					;-YBNH025-05,67096-005,5P,500,	
RN02	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		CN06	AAA39-20499B	AZ664058	LEAD CONNECTOR-ASSY	
RN04	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012					;-YBNH025-04,SMP025-04,4P,200,	
RN06	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		ASSY-R/G/B,SWITCHING				
RN18	2007-001177	AZ260014	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		* HA95-90009S AZ660021 ASSY-R/G/B,SWITCHING				
CN07	2203-000218	AZ160001	C-CERAMIC,CHIP;100nF,20%,50V,Y5V,TP,2012					;-S51A,PHILIPS MICOM ALL,-	
CN09	2203-000218	AZ160001	C-CERAMIC,CHIP;100nF,20%,50V,Y5V,TP,2012		DS01	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
CN26	2203-000218	AZ160001	C-CERAMIC,CHIP;100nF,20%,50V,Y5V,TP,2012		ICS01	1001-000223	AZ661002	IC-VIDEO SWITCH;TEA5114A,-,DIP,16P;334MIL,SING	
CN39	2203-000218	AZ160001	C-CERAMIC,CHIP;100nF,20%,50V,Y5V,TP,2012		RS01	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN01	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012		RS04	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN02	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012		RS06	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN10	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012		RS13	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN33	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012		RS14	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN34	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012		RS15	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN23	2203-000389	AZ160003	C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,201		RS16	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN35	2203-000701	AZ160004	C-CERAMIC,CHIP;0.002nF,0.25pF,50V,NP0,TP		RS17	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN12	2203-000784	AZ160005	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012		RS18	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN13	2203-000784	AZ160005	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012		RS07	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN21	2203-000802	AZ160006	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,2012		RS08	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN24	2203-000818	AZ160007	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,201		RS09	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN03	2203-000891	AZ160008	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012		RS10	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN18	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		RS11	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN19	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		RS12	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CN20	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		CS03	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN25	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		CS04	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN28	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		CS05	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN29	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		CS06	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN31	2203-000925	AZ160009	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP		CS07	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN08	2203-001002	AZ160010	C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201		CS08	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CN04	2203-002392	AZ160011	C-CERAMIC,CHIP;220nF,+80-20%,50V,Y5V,TP		CS02	2305-000665	AZ162027	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,	
CN22	2203-002442	AZ160012	C-CERAMIC,CHIP;330nF,+80-20%,25V,Y5V,TP		CS01	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11.5	
CN06	2401-000030	AZ164002	C-AL;22uF,20%,25V,GP,TP,5x11.5		CNS01	3711-002702	AZ664022	CONNECTOR-HEADER;NOWALL,4P,1R,2.5mm,ANGLE,SN	
CN36	2401-000242	AZ164004	C-AL;100uF,20%,10V,GP,TP,5x11.5		CNS02	3711-002703	AZ664023	CONNECTOR-HEADER;NOWALL,5P,1R,2.5mm,ANGLE,SN	
CN32	2401-000471	AZ164008	C-AL;10uF,20%,50V,BP,TP,5x11.5mm		CNS03	AAA39-20052F	AZ664053	LEAD CONNECTOR-ASSY	
CN14	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5					;-YBNH025-04,YSH025-04,4P,200m	
CN15	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5						
CN16	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5						
CN17	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5						
CN27	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5						
CN05	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11.5						
CN11	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11.5						
CN37	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11.5						
CN30	2401-002144	AZ164030	C-AL;47uF,20%,16V,GP,TP,5x11.5						
CN38	2401-002144	AZ164030	C-AL;47uF,20%,16V,GP,TP,5x11.5						

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc. No.	Replacement No	Parts No	Description ; Specification	Remarks
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H001 AA61-10068A AZ664035 BRACKET-PCB,-,M2160,SPT E,T0 3,-,-,-

REMOCON

AA59-00089A AZ660024 REMOCON;DP;TM59,AA59-00083A,-,-,-,-,-

ASSY-CRT

AA03-00123A AZ664091 CRT-COLOR,-,A51EER133X77,+400MG,21,90DE
AA27-50005G AZ664042 DEFLECTION-YOKE,-,DST-21944(2),21/A51EER131XS
AA63-60028A AZ664086 SPACER-DY,NEOPRENE,-,BLK,V0 W12,-,-
AA27-00002A AZ664092 MAGNET-CONVERGENCE,-,JH291 SC-OB,29.1MM

ASSY-SPEAKER

3001-000280 AZ664096 SPEAKER,5W,160HM,90DB,150HZ
AA39-20504B AZ664095 LEAD CONNECTOR-ASSY
,-,SMH025-04,REC,4P,300,700,100

ASSY-POWER,CORD

AA39-10001G AZ664041 POWER-CORD,-,KKP-419C,KLCE-2F,2.286M,HOU
AA61-20284A AZ664044 HOLDER,-,P-CORD,PP,V0,BLK,KE-002

ASSY-ACCESSORY

HA68-00617A AZ664088 MANUAL-USERS,S51A,A/P80(G),FRENCH,21S03,TSB
HA68-00618A AZ664089 MANUAL-USERS,S51A,A/P80(G),GERMAN,21S03,TSB
HA68-00619A AZ664090 MANUAL-USERS,S51A,A/P80(G),ITALIAN,21S03,TS

7-2 CX21S03D3X/TSB

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
ASSY-PCB,MAIN									
*	HA94-01740A	AZ660025	ASSY-PCB,MAIN(OPT);CX21S03D3X,S51A,TSB,SEB		Q209	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-Q404	
D201	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q404	0501-000369	AZ561002	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-Q201	
D202	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q201	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q202	
D203	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q202	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q204	
D204	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q204	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q207	
D207	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q207	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q210	
D210	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q210	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q301	
D217	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q301	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q302	
D302	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q302	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q701	
D303	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q701	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q702	
D304	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q702	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q901	
D602	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q901	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q905	
D804	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q905	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q907	
D809	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q907	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q908	
D810	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q908	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q101	
D901	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q101	0501-000389	AZ561003	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-Q403	
D906	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q403	0502-001115	AZ561006	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST-8-Q902	
D907	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q902	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP-Q903	
D402	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q903	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP-Q904	
D403	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q904	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP-Q102	
D520	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		Q102	0504-000125	AZ561008	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP-IC802	
D801	0402-000213	AZ462006	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41,TP		IC802	0604-001038	AZ661001	PHOTO-COUPLER;TR,130-260%,200MW,DIP-4,ST-IC902	
D805	0402-000231	AZ462007	DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F,ST		IC902	1103-001043	AZ661003	IC-EEPROM;24C16,2Kx8BIT,DIP8P,300MIL,10-IC601	
D807	0402-000233	AZ462008	DIODE-RECTIFIER;FML-G12S,200V,5A,-,-		IC601	1201-001064	AZ661005	IC-POWER AMP;7297,ZIP15P,-,DUAL,32DB,PLAST-IC501	
D209	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		IC501	1201-001330	AZ661008	IC-VIDEO AMP;6108,ZSIP9P,-,SINGLE,-,PLASTI-DZ901	
D407	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		DZ901	1203-000451	AZ661009	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,IC804	
D401	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		IC804	1203-000644	AZ661011	IC-POSIFIXED REG.;7630,SIP,10P,-,PLASTIC,5.1/8V,IC803	
D410	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		IC803	1203-001006	AZ661012	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4-DZ805	
D806	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		DZ805	1203-001217	AZ661013	IC-POSIAJUST REG.;431,TO-92,3P4.58MIL,PLASTIC,2-IC801	
D813	0402-000493	AZ462010	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP		IC801	1203-001494	AZ661014	IC-PWM CONTROLLER;3S0680RF,TO3PF-5L,5.210,PLASTI-CA903	
Q301	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		CA903	1203-001752	AZ661015	IC-POSIFIXED REG;LF33CV,TO-220,3P,-,PL-IC701	
D406	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC701	1204-000473	AZ661017	IC-AUDIO PROCESSOR;TDA9859,DIP,32P,-,PLASTIC,-,-,IC301	
D507	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC301	1204-000517	AZ661018	IC-VERTICAL DEF;LA7845,SIP,7P,-,PLASTIC,40V,11-IC201	
D508	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		IC201	1204-001440	AZ661019	IC-VIDEO SYSTEM;TDA8842,DIP,56P,300MIL,PLASTIC-RP803	
D509	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		RP803	1404-001048	AA664039	THERMISTOR-PTC;7ohm,30%,200/220V,270V,19A,-,B-DV801	
D803	0402-000546	AZ462013	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP		DV801	1405-000187	AA664040	VARISTOR;750V,1250A,12.5x7mm,TP-DV802	
D802	0402-001160	AZ462015	DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST		DV802	1405-000187	AA664040	VARISTOR;750V,1250A,12.5x7mm,TP-RT04	
D601	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ802		RT04	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM-R212	
DZ802	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ803		R212	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM-R237	
DZ803	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ804		R237	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R725	
DZ804	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ807		R725	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R255	
DZ807	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ905		R255	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R303	
DZ905	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ906		R303	2001-000016	AZ262010	R-CARBON(S);10HM,5%,1/2W,AA,TP,2.4x6.4mm-J817	
DZ906	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,DZ201		J817	2001-000019	AZ262100	R-CARBON(S);10hm,5%,1/2W,AA,TP,2.4x6.4mm-R412	
DZ201	0403-000297	AZ461002	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,DZ202		R412	2001-000020	AZ262220	R-CARBON(S);22ohm,5%,1/2W,AA,TP,2.4x6.4mm-R828	
DZ202	0403-000297	AZ461002	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,DZ203		R828	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm-R903	
DZ203	0403-000298	AZ461003	DIODE-ZENER;MTZ6.8B,6.8V,6.66-7.01V,500mW,DZ402		R903	2001-000066	AZ262103	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm-R911	
DZ402	0403-000300	AZ461004	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,DZ801		R911	2001-000214	AZ261112	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2M-RT19	
DZ801	0403-000300	AZ461004	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,DZ305		RT19	2001-000232	AZ261132	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2M-R908	
DZ305	0403-000494	AZ461006	DIODE-ZENER;MTZ39.39V,35.36-37.2V,500mW,DO-DZ302		R908	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M-R913	
DZ302	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ303		R913	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M-DZ205	
DZ303	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ304		DZ205	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M-R246	
DZ304	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ601		R246	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M-R920	
DZ601	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ602		R920	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M-R220	
DZ602	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ603		R220	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R221	
DZ603	0403-000545	AZ461007	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,DZ705		R221	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R247	
DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ702		R247	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R251	
DZ702	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ703		R251	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R259	
DZ703	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ704		R259	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R314	
DZ704	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ705		R314	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R701	
DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ90		R701	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R702	
DZ90	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,DZ403		R702	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R705	
DZ403	0403-000698	AZ461012	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-41-DZ306		R705	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R706	
DZ306	0403-000700	AZ461013	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,TP		R706	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R728	
BOT	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,DZ809		R728	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R729	
DZ809	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,		R729	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R953	
					R953	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R954	
					R954	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM-R201	
					R201	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R203	
					R203	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R204	
					R204	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R307	
					R307	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM-R309	
					R309	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Electrical Parts List

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R315	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R603	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R722	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R732	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R819	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R822	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R901	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R902	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R919	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R921	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R923	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R261	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R604	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R712	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R219	2001-000343	AZ261131	R-CARBON;130ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R310	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R720	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R723	2001-000387	AZ261163	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R224	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R241	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R249	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R501	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R502	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R503	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R605	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R813	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R922	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R942	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R955	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT03	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT07	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R313	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R317	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R814	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R912	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R933	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R934	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R936	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R948	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R951	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R914	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R507	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R508	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R707	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT22	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT23	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT24	2001-000515	AZ261221	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000527	AZ261220	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT06	2001-000539	AZ261243	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R252	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R257	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R253	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R223	2001-000617	AZ261395	R-CARBON;3.9Mohm,5%,1/8W,AA,TP,1.8x3.2m	
R930	2001-000628	AZ261301	R-CARBON;300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R311	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R316	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R716	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R736	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R918	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R924	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R945	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT01	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT02	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT20	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R215	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R233	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R234	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
R235	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R932	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R935	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT05	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R202	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R312	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R724	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R214	2001-000793	AZ261470	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R226	2001-000793	AZ261470	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R248	2001-000793	AZ261470	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R943	2001-000793	AZ261470	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R236	2001-000832	AZ261511	R-CARBON;5100HM,5%,1/8W,AA,TP,1.8X3.2MM	
R910	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R925	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R926	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R250	2001-000938	AZ261680	R-CARBON;68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R709	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R713	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R715	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R725	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R733	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R734	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R735	2001-000969	AZ261750	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R260	2001-001015	AZ261912	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R262	2001-001015	AZ261912	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R225	2001-001026	AZ261911	R-CARBON;910ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L403	2001-001037	AZ261398	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4m	
R421	2001-001043	AZ262000	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4x6.4MM	
R424	2001-001043	AZ262000	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4x6.4MM	
R425	2001-001043	AZ262000	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4x6.4MM	
R430	2001-001043	AZ262000	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4x6.4MM	
R301	2001-001049	AZ262132	R-CARBON(S);1.3Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R302	2001-001049	AZ262132	R-CARBON(S);1.3Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R520	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R937	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R410	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R420	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R824	2001-001125	AZ262304	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R804	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R805	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R411	2001-001153	AZ262470	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4x6.4MM	
R826	2001-001153	AZ262470	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4x6.4MM	
R807	2001-001178	AZ262681	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R510	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,5%,1/2W,AA,TP,3.7X9.0	
R517	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R518	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R519	2002-001009	AZ263004	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
R801	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R808	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R809	2002-001013	AZ263006	R-COMPOSITION;4.7Mohm,10%,1/2W,AA,TP,3.7x9mm	
R806	2003-000458	AZ263007	R-METAL OXIDE(S);10ohm,5%,2W,AF,TP,4x12mm	
R811	2003-000462	AZ263008	R-METAL OXIDE(S);10Kohm,5%,2W,AA,TP,4x12mm	
R404	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R423	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R802	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R803	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R308	2003-000998	AZ263016	R-METAL OXIDE;300ohm,5%,2W,AF,TP,3.9x10mm	
R407	2003-001025	AZ263017	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x10mm	
R406	2003-002008	AZ263022	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x10mm	
R305	2003-002009	AZ263023	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x10mm	
R304	2003-002070	AZ263024	R-METAL OXIDE;1ohm,5%,2W,AF,TP,3.9x10mm	
R904	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R905	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R906	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R909	2004-001126	AZ263028	R-METAL;6.2KOHM,1%,1/8W,AA,TP,1.8X3.2M	
R256	2004-001234	AZ263029	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R419	2004-001390	AZ263031	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R258	2004-001914	AZ263032	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R418	2004-001967	AZ263033	R-METAL(S);68KOHM,1%,1/2W,AA,TP,6.5X2.5MM	
R416	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R817	2004-004086	AZ263036	R-METAL;56Kohm,1%,1/2W,AA,TP,2.5X6.5mm	
R815	2004-004089	AZ263037	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5M	
R413	2008-000251	AZ263040	R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10mm	
R505	2008-000254	AZ263041	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
R409	2008-000264	AZ263042	R-FUSIBLE(S);10HM,5%,1W,AF,TP,3.9X10MM	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R415	2008-000266	AZ263044	R-FUSIBLE(S);10HM,5%,2W,AF,TP,3.9x10mm		C713	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
R414	2008-000278	AZ263046	R-FUSIBLE(S);82ohm,5%,2W,AA,TP,3.9x10mm		C718	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
R820	2008-000294	AZ263047	R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm		C301	2301-000254	AZ162008	C-FILM,PEF;39nF,5%,50V,TP,7.5x3.5x6.5mm,5	
R506	2008-000299	AZ263048	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm		C714	2301-000289	AZ162009	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3.5	
R821	2008-001086	AZ263052	R-FUSIBLE(S);3.3ohm,5%,2W,AG,TP,3.9x12mm		C717	2301-000289	AZ162009	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3.5	
R601	2008-001109	AZ263054	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12mm		C811	2301-000310	AZ162010	C-FILM,PEF;68nF,5%,50V,TP,8.0X8.5X4.0X5.5	
R602	2008-001109	AZ263054	R-FUSIBLE(S);0.18ohm,10%,2W,AG,TP,3.9x12mm		C229	2301-000356	AZ162011	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
R810	2008-002173	AZ263055	R-FUSIBLE(S);7.5KOHM,5%,2W,AG,TP,3.9x12mm		C238	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
RW901	2011-000157	AZ263056	R-NETWORK,10K,5%,1/8W,A,SIP6P,TP		CA16	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C903	2201-000119	AZ163001	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5		BOT R62301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		
C303	2201-000192	AZ163002	C-CERAMIC,DISC;10pF,0.3pF,500V,CH,TP,7x4.5		BOT R62301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		
C901	2201-000234	AZ163004	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3.5		C239	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C228	2201-000273	AZ163006	C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5		C913	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C804	2201-000332	AZ163008	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7.7		C807	2303-000163	AZ162015	C-FILM,PEF;2.2nF,5%,800V,TP,15x13x8.5,7.5	
C805	2201-000332	AZ163008	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7.7		C305	2305-000149	AZ162016	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5	
C812	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8.10m		C425	2305-000154	AZ162017	C-FILM,MPEF;100nF,5%,400V,TP,21.5x6.5x11.5	
C813	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8.10m		C411	2305-000178	AZ162018	C-FILM,MPEF;10nF,5%,100V,TP,-5mm	
C409	2201-000551	AZ163010	C-CERAMIC,DISC;470pF,10%,1KV,Y5P,TP,8x5.5		C304	2305-000285	AZ162020	C-FILM,MPEF;220nF,5%,100V,TP,20x18x11.5,15	
C418	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5		C221	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C423	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5		C234	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C412	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5		C705	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C817	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5		C722	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C819	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5		C725	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C822	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5		C727	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C814	2201-000683	AZ163014	C-CERAMIC,DISC;850pF,10%,1KV,Y5P,TP,10x5.5		C824	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C916	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm		CT08	2305-000354	AZ162022	C-FILM,MPEF;330nF,5%,50V,TP,7.3x4.8x5.5MM,	
C917	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm		C408	2305-000382	AZ162023	C-FILM,MPEF;4.7nF,5%,400V,TP,-5MM	
C407	2201-000984	AZ163016	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6.7,5m		C218	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C227	2201-000986	AZ163017	C-CERAMIC,DISC;12pF,5%,50V,NPO,TP,5x3mm,2.5mm		C215	2305-000412	AZ162025	C-FILM,MPEF;470nF,5%,63V,TP,-5mm	
C530	2201-002063	AZ163019	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,16x5.7		C222	2305-000412	AZ162025	C-FILM,MPEF;470nF,5%,63V,TP,-5mm	
CT05	2202-000164	AZ161181	C-CERAMIC,MLC-AXIAL;180PF,10%,50V,Y5P,3.5X19,-,TP		C217	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C231	2202-000183	AZ161222	C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5x19,-		C237	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C730	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-		C245	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C731	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-		C830	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C732	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-		C905	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C733	2202-000231	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-		C906	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C703	2202-000243	AZ161330	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X19,-,TP		CT01	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C109	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C210	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C232	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C422	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C910	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C709	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C911	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C825	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C921	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C415	2306-000253	AZ166002	C-FILM,MPPF;7.2nF,5%,1.6KV,TP,28.5x18.5x12	
C242	2202-000806	AZ161221	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y5P,TP,3.5x19,-		C801	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-22.5mm	
RT17	2202-000825	AZ161681	C-CERAMIC,MLC-AXIAL;680pF,10%,50V,Y5P,TP,3.5x19,-		C802	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-22.5mm	
C235	2202-000849	AZ161999	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.5x1.9,-		C406	2306-000350	AZ166004	C-FILM,MPPF;270nF,5%,400V,BK,26x18.5x10.20	
C504	2202-000862	AZ161391	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,-		C233	2309-000138	AZ162030	C-FILM,PE-PFF;100nF,5%,50V,TP,20x16x8.5,7.5mm	
C103	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C835	2401-000142	AZ164003	C-AL;100uF,20%,16V,WT,TP,10x20,5	
C104	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		CT02	2401-000242	AZ164004	C-AL;100uF,20%,10V,GP,TP,6x11.5MM	
C105	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C816	2401-000293	AZ165002	C-AL;100uF,+30-10%,200V,HR,TP,16x25	
C223	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C220	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C224	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C707	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C225	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C710	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C236	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C829	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C701	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C922	2401-000302	AZ164005	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C704	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C302	2401-000360	AZ164006	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C907	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C307	2401-000360	AZ164006	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C908	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C510	2401-000430	AZ165004	C-AL;100uF,20%,250V,GP,TP,10X16MM,5M	
C909	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C226	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C919	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C308	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C923	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C712	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C925	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C719	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C926	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C831	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C927	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C904	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
CT03	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C920	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
CT04	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C924	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
CT11	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3		C828	2401-000493	AZ164010	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm	
C902	2301-000108	AZ162001	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,		C241	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C721	2301-000175	AZ162002	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m		C243	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C723	2301-000175	AZ162002	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m		C214	2401-000660	AZ164013	C-AL;2.2uF,20%,50V,GP,TP,5x11.5	
C230	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm		C818	2401-000722	AZ164014	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C604	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm		C200	2401-000722	AZ164014	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C506	2301-000213	AZ162005	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5		C107	2401-000914	AZ164040	C-AL;22uF,20%,16V,GP,TP,5x11.5	
C213	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C226	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11.5	
C244	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C413	2401-000962	AZ164017	C-AL;22uF,20%,50V,GP,TP,5x11.5	
C306	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C207	2401-001026	AZ164018	C-AL;3.3uF,20%,50V,GP,TP,5x11mm,5mm	
C809	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C106	2401-001082	AZ164019	C-AL;330nF,20%,50V,GP,TP,5x11.5	
C821	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C520	2401-001232	AZ165009	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5	

Electrical Parts List

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
C603	2401-001333	AZ164022	C-AL;470nF,20%,50V,GP,TP,5x11,5	
C410	2401-001397	AZ164024	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T	
C419	2401-001397	AZ164024	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T	
C219	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C702	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C833	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C914	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
CT06	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C424	2401-001527	AZ165010	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m	
C216	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C240	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C309	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C823	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C826	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C832	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C715	2401-001991	AZ164028	C-AL;2.2uF,20%,50V,GP,TP,5x11,5	
C716	2401-001991	AZ164028	C-AL;2.2uF,20%,50V,GP,TP,5x11,5	
C607	2401-001998	AZ164029	C-AL;1000uF,20%,25V,GP,TP,10X20,5MM	
C711	2401-002235	AZ164031	C-AL;10Uf,20%,16V,GP,TP,5X11MM,5MM	
C720	2401-002235	AZ164031	C-AL;10Uf,20%,16V,GP,TP,5X11MM,5MM	
C827	2401-002235	AZ164031	C-AL;10Uf,20%,16V,GP,TP,5X11MM,5MM	
C405	2401-002268	AZ165011	C-AL;2.2uF,20%,250V,LZ,TP,8X11,5	
C601	2401-002269	AZ164032	C-AL;2.2uF,20%,50V,BP,TP,10x16mm,5m	
C605	2401-002269	AZ164032	C-AL;2.2uF,20%,50V,BP,TP,10x16mm,5m	
C808	2401-002292	AZ164034	C-AL;47uF,20%,25V,WT,TP,8X11,5	
C102	2401-002594	AZ164036	C-AL;220uF,20%,16V,GP,TP,8x11,5,5	
C211	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5	
C421	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5	
C806	2401-003025	AZ165013	C-AL;330uF,20%,400V,GP,ST,30x40,10	
C815	2401-003026	AZ165014	C-AL;330uF,20%,200V,GP,ST,22x35,10	
CW9012503-000156		AZ166005	C-NETWORK;100pF,4,20%,50V	
CW7012503-000161		AZ166006	C-NETWORK;331*8	
J815	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
J961	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L102	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L103	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L205	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L207	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L303	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L701	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L702	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L703	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L704	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L705	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L706	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L707	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L708	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L709	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L710	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L905	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L906	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L907	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R740	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R741	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R927	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R928	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R929	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R208	2701-000142	AZ361004	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM	
R222	2701-000142	AZ361004	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM	
L901	2701-000189	AZ361011	INDUCTOR-AXIAL;470NH,10%,2.5X3.4MM	
L202	2701-000197	AZ361012	INDUCTOR-AXIAL;5.6UH,10%,2.5X3.4MM	
L903	2701-000197	AZ361012	INDUCTOR-AXIAL;5.6UH,10%,2.5X3.4MM	
L904	2701-000211	AZ361014	INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm	
L101	2701-000326	AZ361017	INDUCTOR-AXIAL;560nH,10%,2.3x3.4mm	
L805	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
X203	2801-000226	AZ663001	CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF	
XT01	2801-003433	AZ663003	CRYSTAL-UNIT;12MHz,30ppm,28-AAM,30pF,30ahm	
X202	2801-003726	AZ663004	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAM,20pF	
C602	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C606	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L501	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L603	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L806	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
R823	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L804	2901-000299	AZ362002	FILTER-EMI ON BOARD;-.6A,UL/CSA,-,9x7.5,TP-	
L702	2901-000299	AZ362002	FILTER-EMI ON BOARD;-.6A,UL/CSA,-,9x7.5,TP-	
Z208	2903-000181	AZ664001	FILTER-CERAMIC;TR,5.5MHz,-,TP,TPS5.5MB-TF	

Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
SF101	2904-000302	AZ664007	FILTER-SAW AV;38.90MHz,-,ST,13.9dB,PAL-B/G,-	
J206	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
L601	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
L802	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
L803	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
L807	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
L808	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
SW8013403-000179		AZ662011	SWITCH-PUSH;250V,5A,DPST,-,JPW-2104B	
SW9013404-000244		AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW9023404-000244		AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW9033404-000244		AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW9043404-000244		AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW9053404-000244		AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
F801	3601-000281	AZ664011	FUSE-FERRULE;250V,4A,TIME LAG,GLASS,5x20mm	
F804	3601-001057	AZ664012	FUSE-FERRULE;250V,630MA,SB,GLASS,5.2X20MM	
R830	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
R831	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
F801A	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F801B	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F804A	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F804B	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
V999	3704-000105	AZ664016	SOCKET-CRT;11P,20PI,26.5PI,NL,-	
CN901A3711-002643		AZ664018	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGHT,SN	
CN602	3711-002644	AZ664019	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,STRAIGHT,SN	
CN602	3711-002644	AZ664019	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,STRAIGHT,SN	
CN701	3711-002647	AZ664020	CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN	
CN701	3711-002647	AZ664020	CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN	
JE01	3722-000143	AZ664027	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
JA701	3722-000195	AZ664029	JACK-SCART;42P,-,SN,BLK,NO	
JR01	3722-001031	AZ664031	JACK-RCA;3P,3.6MM,#18,AU	
IC901	AA09-00015A	AZ661024	IC-MCU;OPM:511EE(0092),52P,ST,8BIT,-1	
HC101	AA13-20004WAZ661025	IC-HYBRID;-,PAP103T,SIP,6PP,PRE-AMP,TP		
T801	AA26-20007WAZ363002	TRANS-SWITCHING;-,90-260V,130/15.5/12V,VDE,S		
T444	AA26-30005Y	AZ363004	TRANS-FLYBACK;-,FSV-20B0001A,20,125V	
T401	AA26-50001B	AZ363005	HORIZ.DRIVE;-,7.1MH,102UH,10-20UH,YL081,ST	
CN802	AA27-20003Z	AZ362004	COIL-DEGAUSSING;-,21,13.5ohm,25T,L2380,E	
L402	AA27-30001B	AZ362005	COIL-LINEARITY;-,195UH,QIC1010,PI0.4,4.5X21.5	
L401	AA27-40003G	AZ362007	COIL-HORIZ.WIDTH;-,90/260UH,SB-5S0S6*20,PI0.12X	
L801	AA29-30001Q	AZ362009	FILTER-LINE;-,20MH,1.26A,-,BSF3050	
GT804-AA39-20010B		AZ664050	LEAD-CONNECTOR,ASSY;-YFH800-01,S,1P,500,1617#22	
GT404	AA39-20010D	AZ664051	LEAD-CONNECTOR,ASSY;-YFH800-01,S,1P,400,1617#22	
CN01A	AA39-20068E	AZ664054	LEAD-CONNECTOR,ASSY	
			;-YBNH025-08,67096-008,8P,500,	
CN05A	AA39-20069A	AZ664055	LEAD-CONNECTOR,ASSY	
			;-YBNH025-05,67096-005,5P,500,	
CN06A	AA39-20499B	AZ664058	LEAD CONNECTOR-ASSY	
			;-YBNH025-04,SMP025-04,4P,200,	
CN501	BAA39-20604AAZ660010	LEAD CONNECTOR-ASSY;-YBNH250-		
			09,YBNH05/04,5/4P,50	
TU101	AA40-00007A	AZ664033	TUNER-V/S;TECC0949VG29A(S),PAL-B/G,-,181	
PCB	AA41-10971E	AZ660011	PCB-MAIN;S51A,1L,FR-1.330X245X1.6T,1A,-	
RM901	AA59-60001U	AZ664034	MODULE-REMOCON;-ORC-50V/FR-12V,38KHz,940nm,	
LD901	AA96-30001B	AZ664087	ASSY-LED,GUIDE;-,AA61-50055A,DL-G5RGA,-	

ASSY-PCB,A/V FRONT

* HA95-900018 AZ660020 ASSY-PCB,A/V FRONT;S51A,TSB

RA01	2001-001074	AZ262131	R-CARBON(S);1300HM,5%,1/2W,AA,TP,2.4X6.4MM
RA02	2001-001074	AZ262131	R-CARBON(S);1300HM,5%,1/2W,AA,TP,2.4X6.4MM
CA02	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-
CA03	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-
CA04	2202-000720	AZ161822	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP
CA05	2202-000720	AZ161822	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP
CA06	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5
CA07	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5
LA02	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM
LA03	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM
LA04	2701-000180	AZ361009	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM
LA05	2701-000180	AZ361009	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM
JE01	3722-000143	AZ664027	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO
JR01	3722-001031	AZ664031	JACK-RCA;3P,3.6MM,#18,AU
CN01A	AA39-20068E	AZ664054	LEAD-CONNECTOR,ASSY
			;-YBNH025-08,67096-008,8P,500,
CN05A	AA39-20069A	AZ664055	LEAD-CONNECTOR,ASSY
			;-YBNH025-05,67096-005,5P,500,

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
CN06A	AA39-20499B	AZ664058	LEAD CONNECTOR-ASSY ;:YBNH025-04,SMP025-04,4P,200,	
ASSY-R/G/B,SWITCHING				
* HA95-90009S AZ660021 ASSY-R/G/B,SWITCHING;-;S51A, PHILIPS MICOM ALL,-;				
DS01	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
ICS01	1001-000223	AZ661002	IC-VIDEO SWITCH;TEA5114A,-,DIP,16P,334MIL,SING	
RS01	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS04	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS06	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS13	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS14	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS15	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS16	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS17	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS18	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS07	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS08	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS09	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS10	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS11	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS12	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CS03	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS04	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS05	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS06	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS07	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS08	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS02	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,	
CS01	2401-002619	AZ164037	C-AL;47uF,20%,25V,GP,TP,5x11,5	
CNS01	3711-002702	AZ664022	CONNECTOR-HEADER;NOWALL,4P,1R,2.5mm,ANGLE,SN	
CNS02	3711-002703	AZ664023	CONNECTOR-HEADER;NOWALL,5P,1R,2.5mm,ANGLE,SN	
CNS03	AA39-20052F	AZ664053	LEAD CONNECTOR-ASSY ;:YBNH025-04,YSH025-04,4P,200m	
H001	AA61-10068A	AZ664035	BRACKET-PCB;-;M2160,SPT,TO.3,-;-;	
ASSY-SOUND				
* AA95-00342A AZ660023 ASSY-SOUND;DPCS,S51A,AA95-00108,A2-STER				
DA01	0401-000160	AZ462022	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP	
DA02	0401-000160	AZ462022	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP	
QA06	0501-000280	AZ561010	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
QA08	0501-000280	AZ561010	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
QA02	0501-000344	AZ561011	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
QA03	0501-000344	AZ561011	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
QA04	0501-000344	AZ561011	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	
QA05	0504-000129	AZ561012	TR-DIGITAL;KSR1104,NPN,200mW,47K/47K,SOT	
QA07	0504-000129	AZ561012	TR-DIGITAL;KSR1104,NPN,200mW,47K/47K,SOT	
ICA01	1204-001047	AZ661029	IC-FM CIRCUIT;TDA9808,DIP,20P,-,PLASTIC,	
ICA02	1204-001459	AZ661026	IC-SOUND;TDA9873H,QFP,44P,-,PLASTIC,5V,	
RA40	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RA41	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RA43	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA39	2001-000458	AZ261229	R-CARBON;2.2OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RA42	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA36	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA21	2001-000977	AZ261822	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA22	2001-000977	AZ261822	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CA01	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA03	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA13	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA14	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA15	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA20	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA28	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA30	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA31	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA32	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA33	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA37	2007-000029	AZ260001	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
RA16	2007-000030	AZ260002	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
RA17	2007-000030	AZ260002	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
RA08	2007-000282	AZ260018	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RA23	2007-000328	AZ260015	R-CHIP;11KOHM,5%,1/10W,DA,TP,2012	
RA26	2007-000328	AZ260015	R-CHIP;11KOHM,5%,1/10W,DA,TP,2012	
RA24	2007-000380	AZ260016	R-CHIP;13KOHM,5%,1/10W,DA,TP,2012	
RA27	2007-000380	AZ260016	R-CHIP;13KOHM,5%,1/10W,DA,TP,2012	
RA25	2007-000468	AZ260017	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
RA29	2007-000468	AZ260017	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
RA18	2007-000586	AZ260006	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
RA19	2007-000586	AZ260006	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
RA10	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
RA12	2007-000941	AZ260011	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
RA05	2007-000981	AZ260012	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
RA38	2007-000981	AZ260012	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
RA06	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RA07	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RA09	2007-001071	AZ260013	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
CA19	2201-000645	AZ163020	C-CERAMIC,DISC;0.68nF,5%,50V,SL,TP,11x3,	
CA09	2202-000279	AZ161470	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3,	
CA17	2202-000797	AZ161100	C-CERAMIC,MLC-AXIAL;10nF,30%,16V,Y5S,TP,	
CA11	2203-000218	AZ160001	C-CERAMIC,CHIP;100nF,20%,50V,Y5V,TP,2012	
CA02	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CA03	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CA10	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CA12	2203-000260	AZ160002	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CA21	2203-000495	AZ160013	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,2012	
CA04	2203-000891	AZ160008	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
CA22	2203-001132	AZ160014	C-CERAMIC,CHIP;0.68nF,5%,50V,NP0,TP,2012	
CA05	2203-002392	AZ160011	C-CERAMIC,CHIP;220nF,+80-20%,50V,Y5V,TP,	
CA14	2301-000342	AZ162031	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
CA15	2301-000342	AZ162031	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
CA20	2301-000342	AZ162031	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
CA16	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
CA29	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
CA18	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA23	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA24	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA25	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA26	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA27	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA28	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
CA06	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA08	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA31	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA32	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA33	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA34	2401-000620	AZ164012	C-AL;2.2uF,10%,50V,GP,TP,5x11,5	
CA07	2401-000914	AZ164040	C-AL;22uF,20%,16V,GP,TP,5x11,5	
CA13	2401-002144	AZ164030	C-AL;47uF,20%,16V,GP,TP,5x11,5	
CA30	2401-002144	AZ164030	C-AL;47uF,20%,16V,GP,TP,5x11,5	
LA01	2701-000202	AZ361013	INDUCTOR-AXIAL;560nH,10%,2.5x3.4mm	
XA01	2801-000300	AZ363007	CRYSTAL-UNIT;4MHZ,20PPM,28-AAAM,14PF,800H	
SFA02	2904-001010	AZ664097	FILTER-SAW AV;32.9-33.4MHz,SIP5P,ST,14.4	
SFA01	2904-001054	AZ664098	FILTER-SAW AV;38.9MHz,SIP5P,-,13.9dB,NTS	
LA02	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
CNA01	3711-002704	AZ664024	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	
CNA02	3711-002705	AZ664025	CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGL	
TA01	AA26-10004E	AZ664032	TRANS-IF,-,7MG,VIF,-,7mm,8pF,116.7MHz,S	
HA01	AA61-10068A	AZ664035	BRACKET-PCB;-;M2160,SPT,TO.3,-;-;	
ASSY-SPEAKER				
AA39-20504B	AZ664095	LEAD CONNECTOR-ASSY;-;SMH025- 04,REC,4P,300,700,100		
3001-000280	AZ664096	SPEAKER;5W,160HM,90DB,150HZ		
ASSY-POWER,CORD				
AA39-10001G	AZ664041	POWER-CORD;-;KKP-419C,KLCE-2F,2.286M,HOU		
AA61-20284A	AZ664044	HOLDER;-;P-CORD,PPVO,BLK,KE-002		
REMOCON				
AA59-00089A	AZ660024	REMOCON;DPTM59,AA59-00083A,-;-;-;-;		

Electrical Parts List

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
---------	----------------	----------	-----------------------------	---------

Loc. No.	Replacement No	Parts No	Description ; Specification	Remarks
----------	----------------	----------	-----------------------------	---------

ASSY-CRT

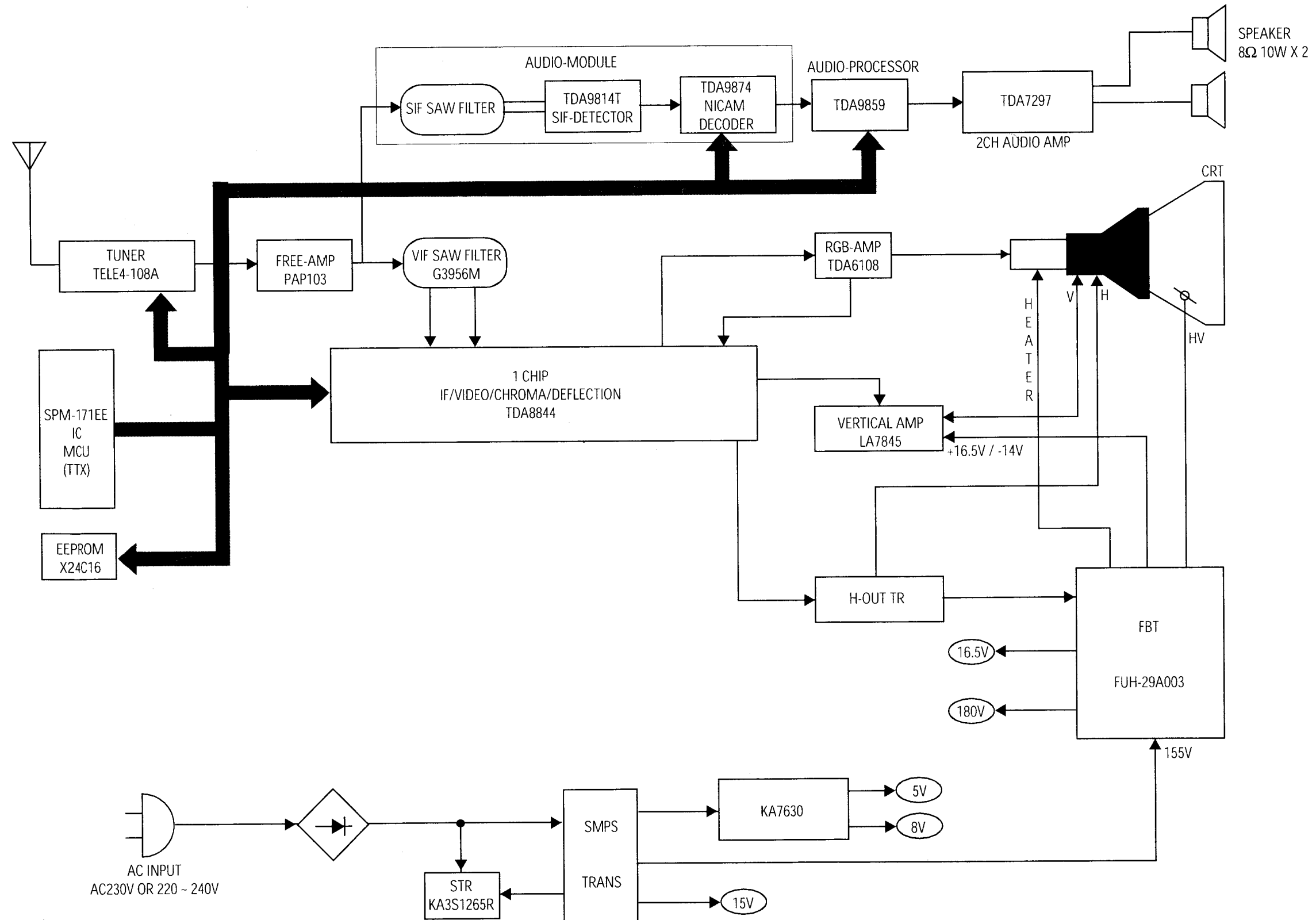
AA03-00123A AZ664091 CRT-COLOR,-,A51EER133X77,+400MG,21,90DE
AA27-50005G AZ664042 DEFLECTION-YOKE,-,DST-21944(2),21/A51EER131XS
AA63-60028A AZ664086 SPACER-DY,NEOPRENE,-,BLK,V0 W12,-,-
AA27-00002A AZ664092 MAGNET-CONVERGENCE,-,JH291-SC-0B,29.1MM

ASSY-ACCESSORY

HA68-00618A AZ664089 MANUAL-USERS,S51A,A/P80(G),GERMAN,21S03,TSB
HA68-00619A AZ664090 MANUAL-USERS,S51A,A/P80(G),ITALIAN,21S03,TS

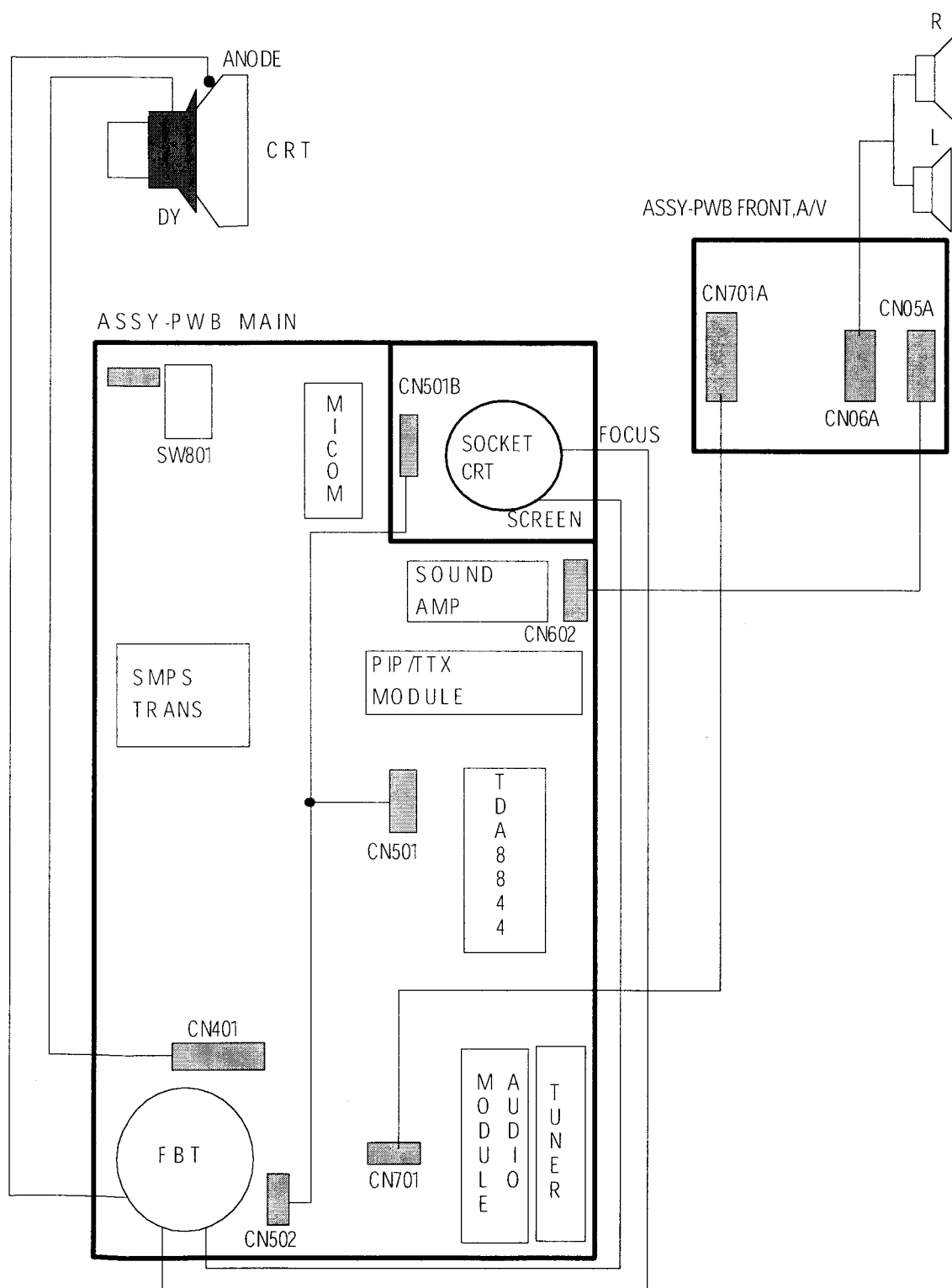
8. Block Diagram

8-1 S51A



10. Wiring Diagram

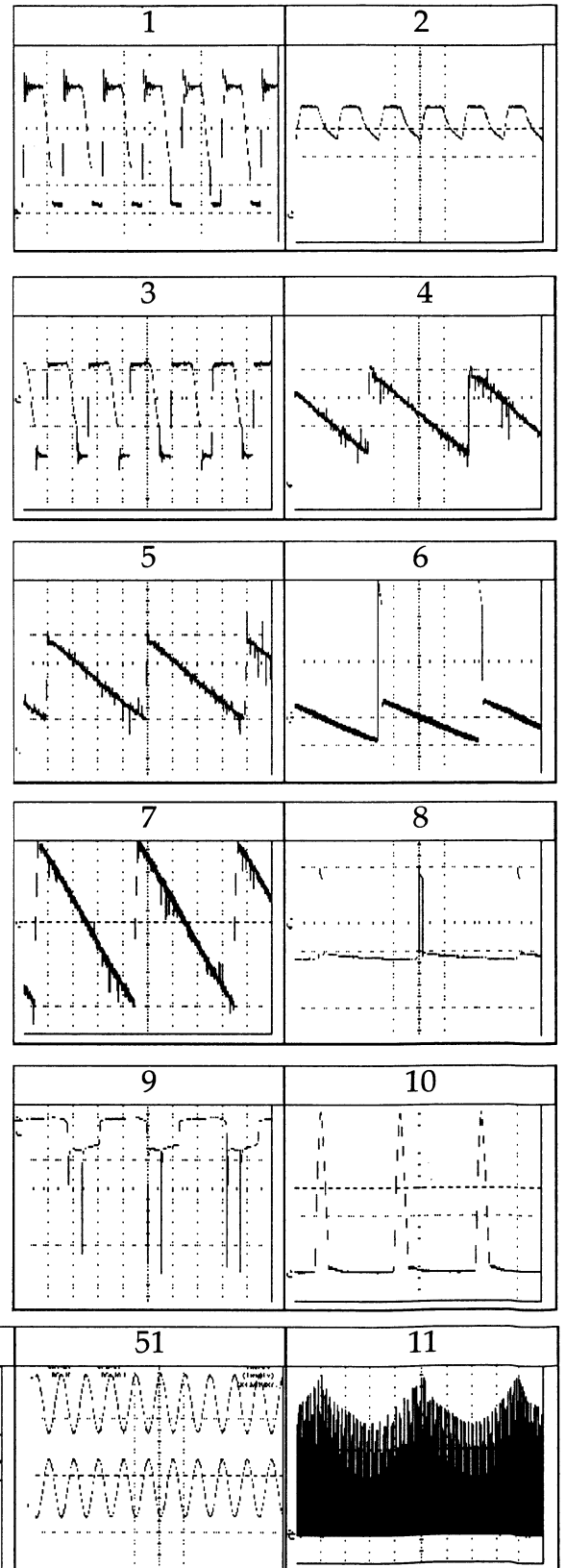
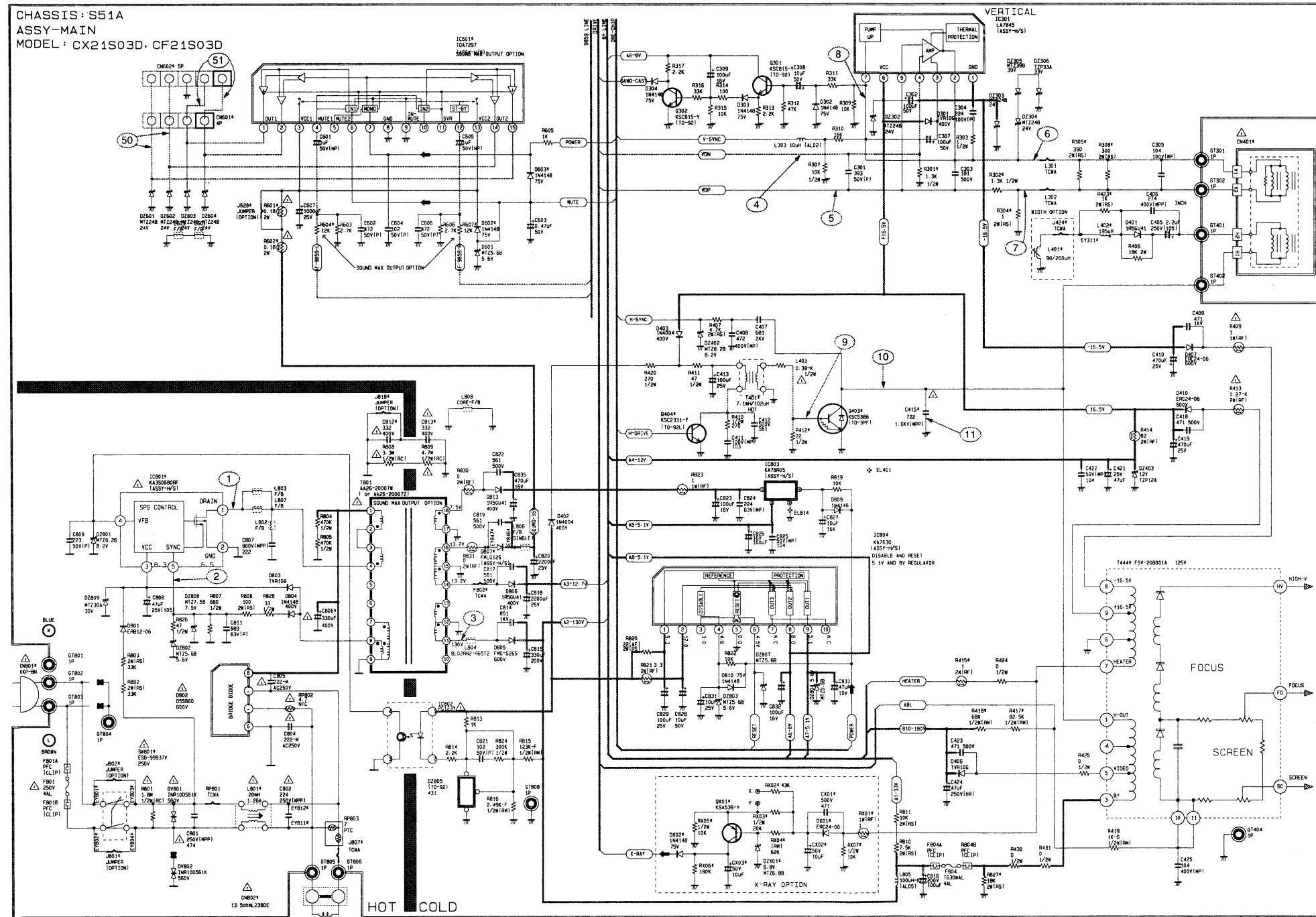
10-1 S51A



MEMO

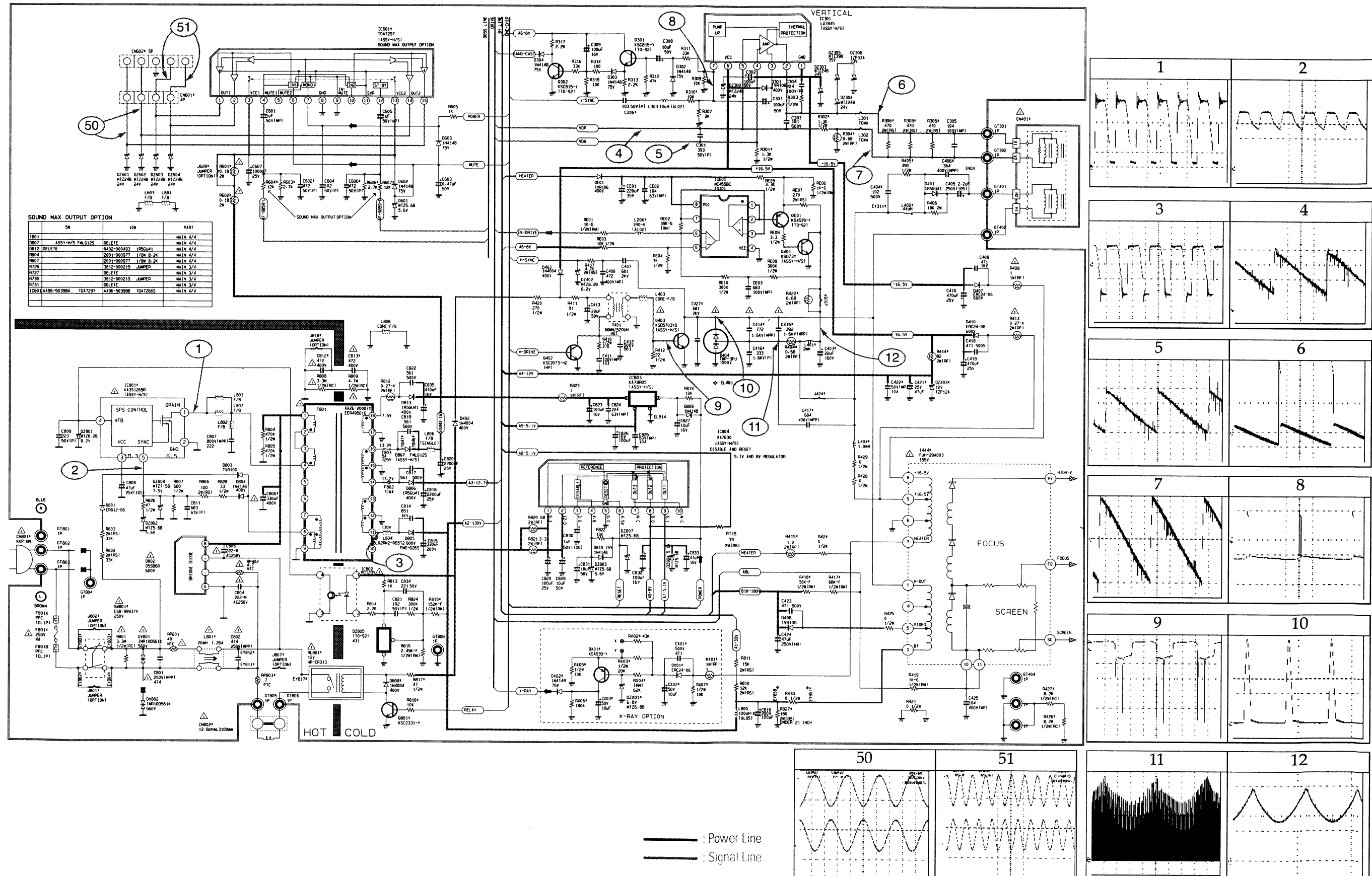
11. Schematic Diagrams

11-1 MAIN (Power 21")

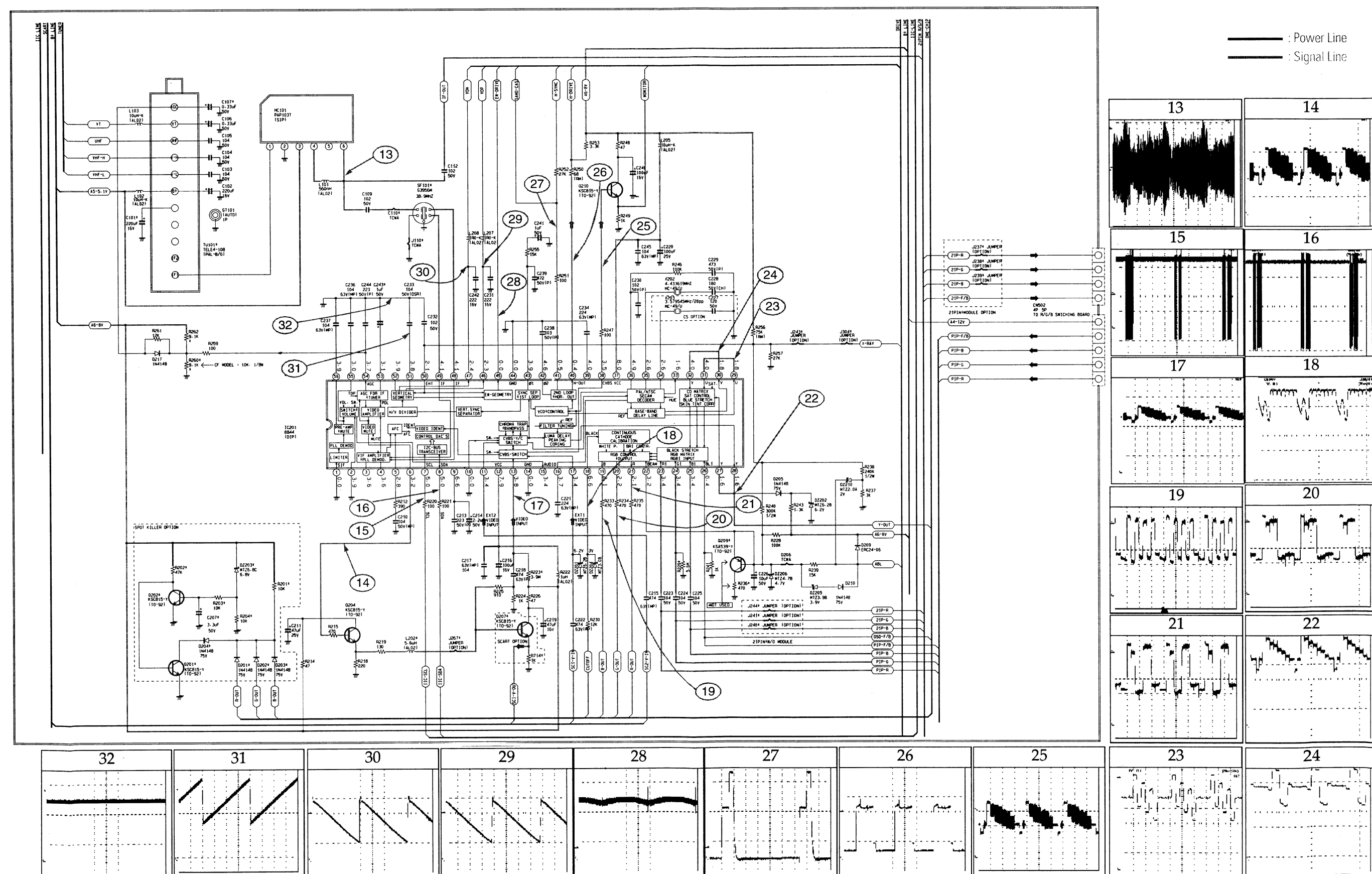


 : Power Line
 : Signal Line

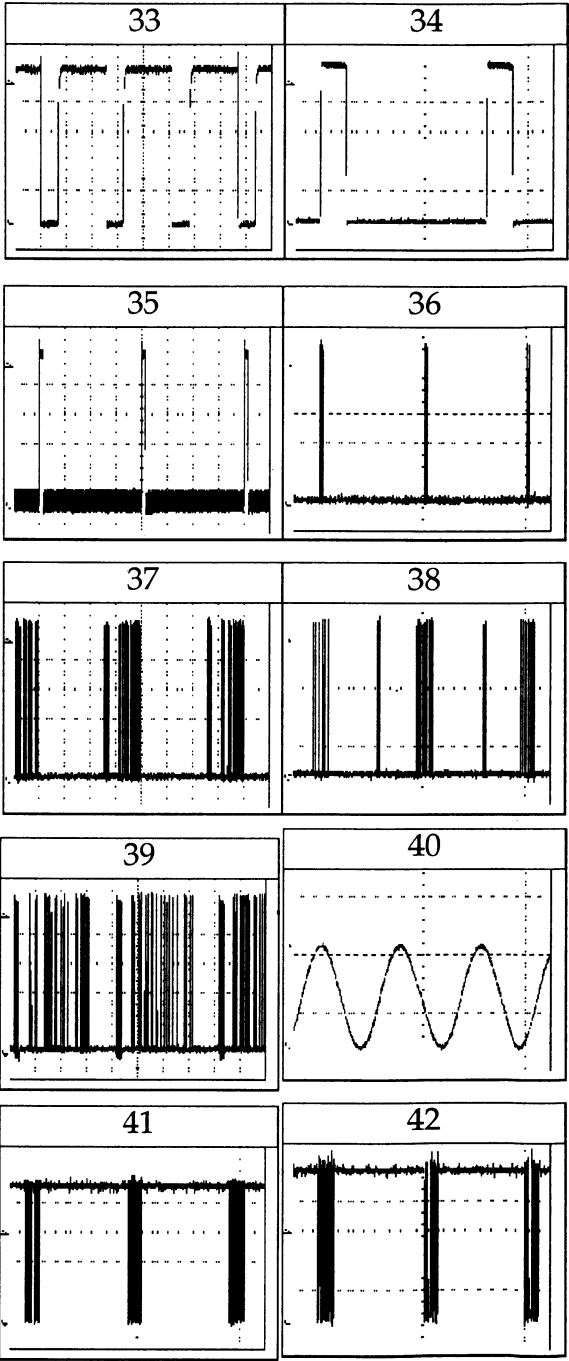
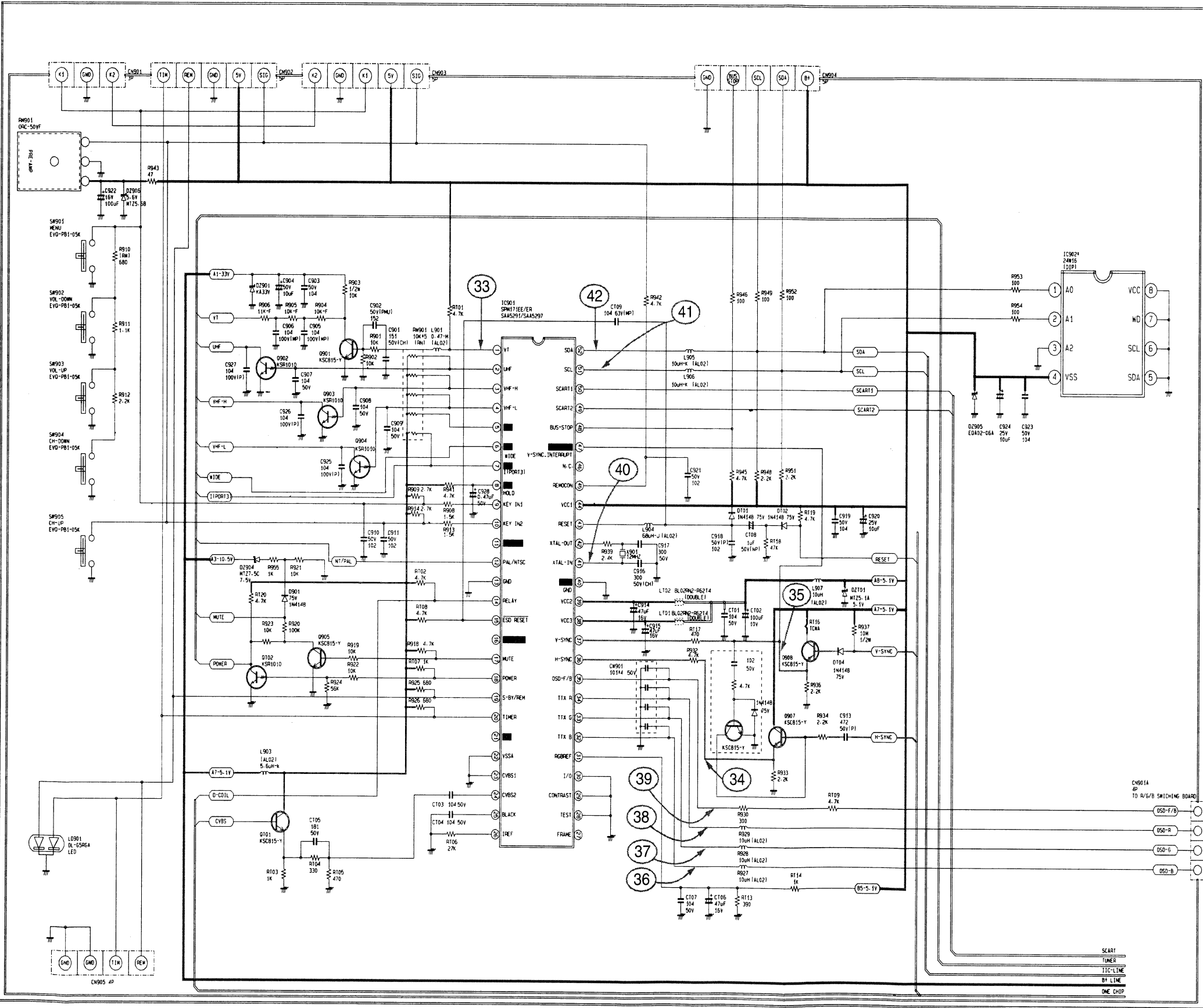
11-2 MAIN (Power 25" - 30")



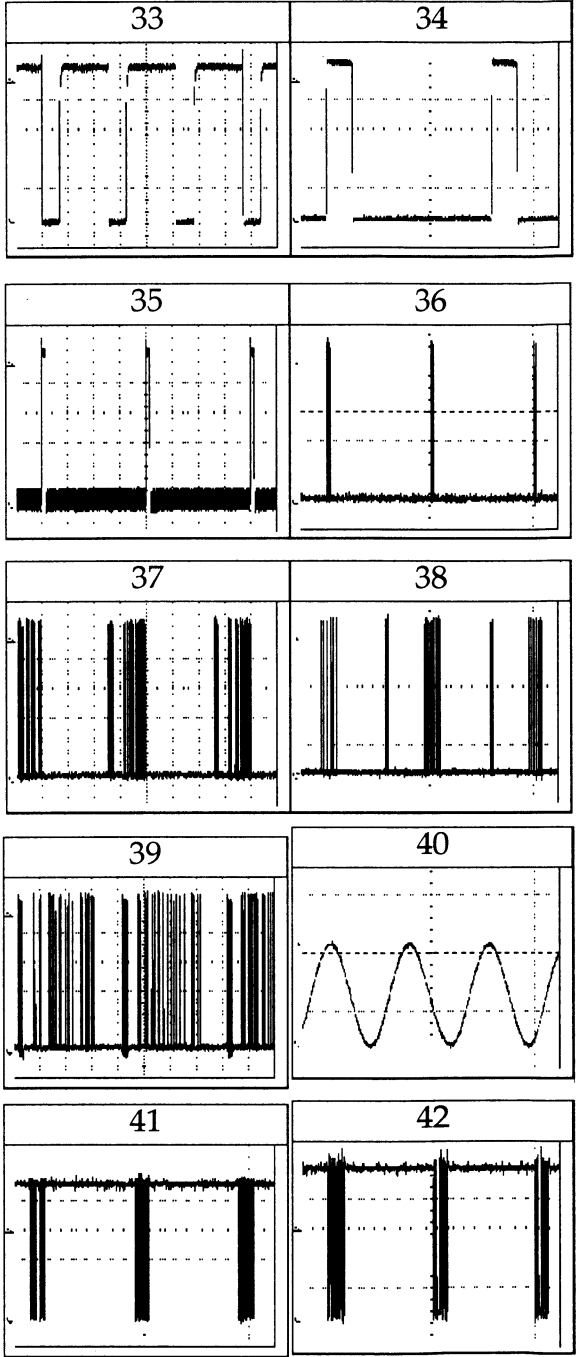
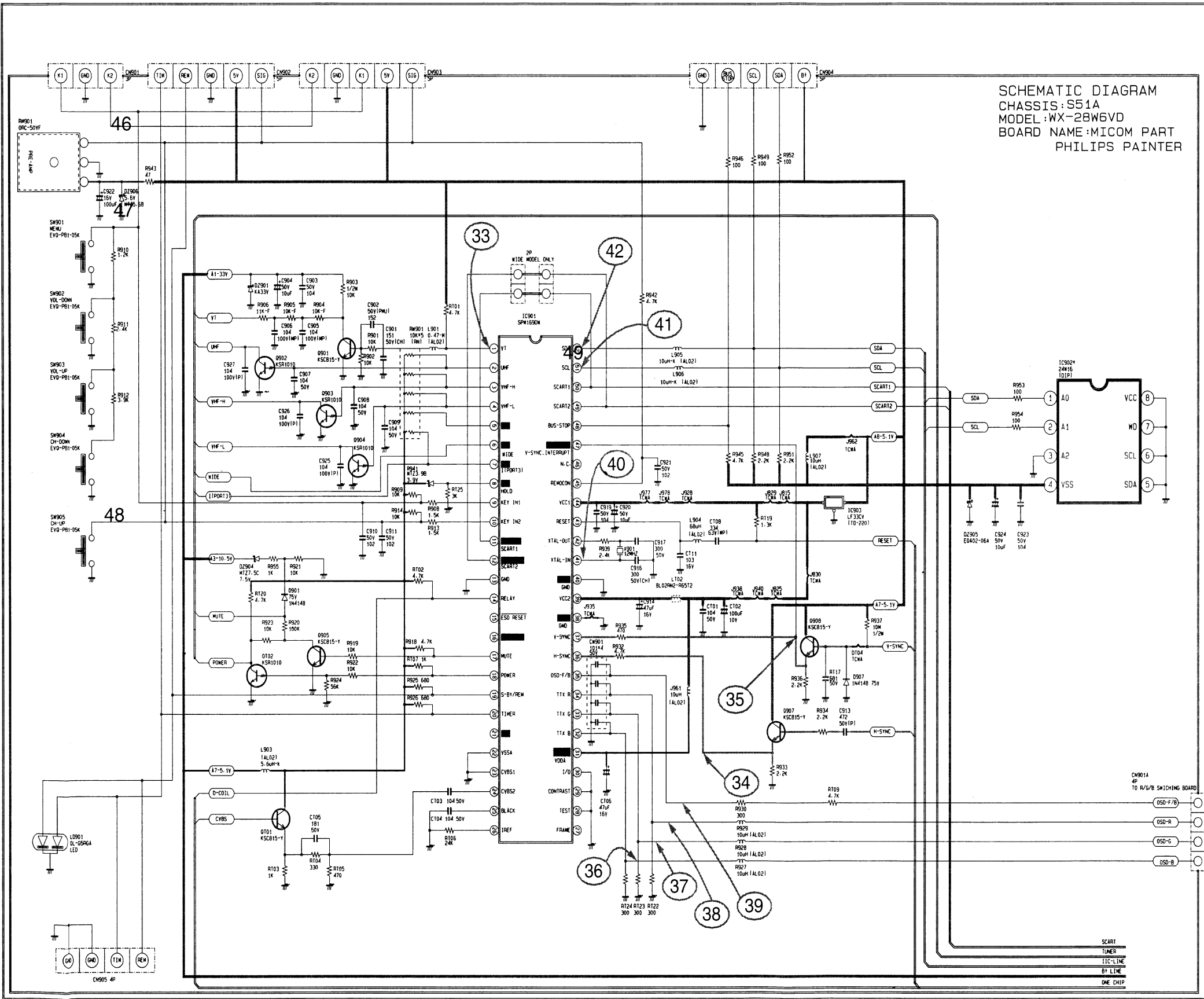
11-3 PWB MAIN (One-Chip)



11-4 PWB MAIN (u-COM)

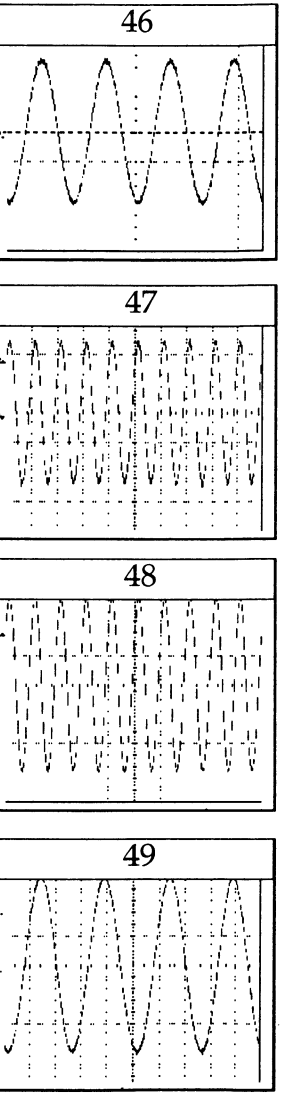
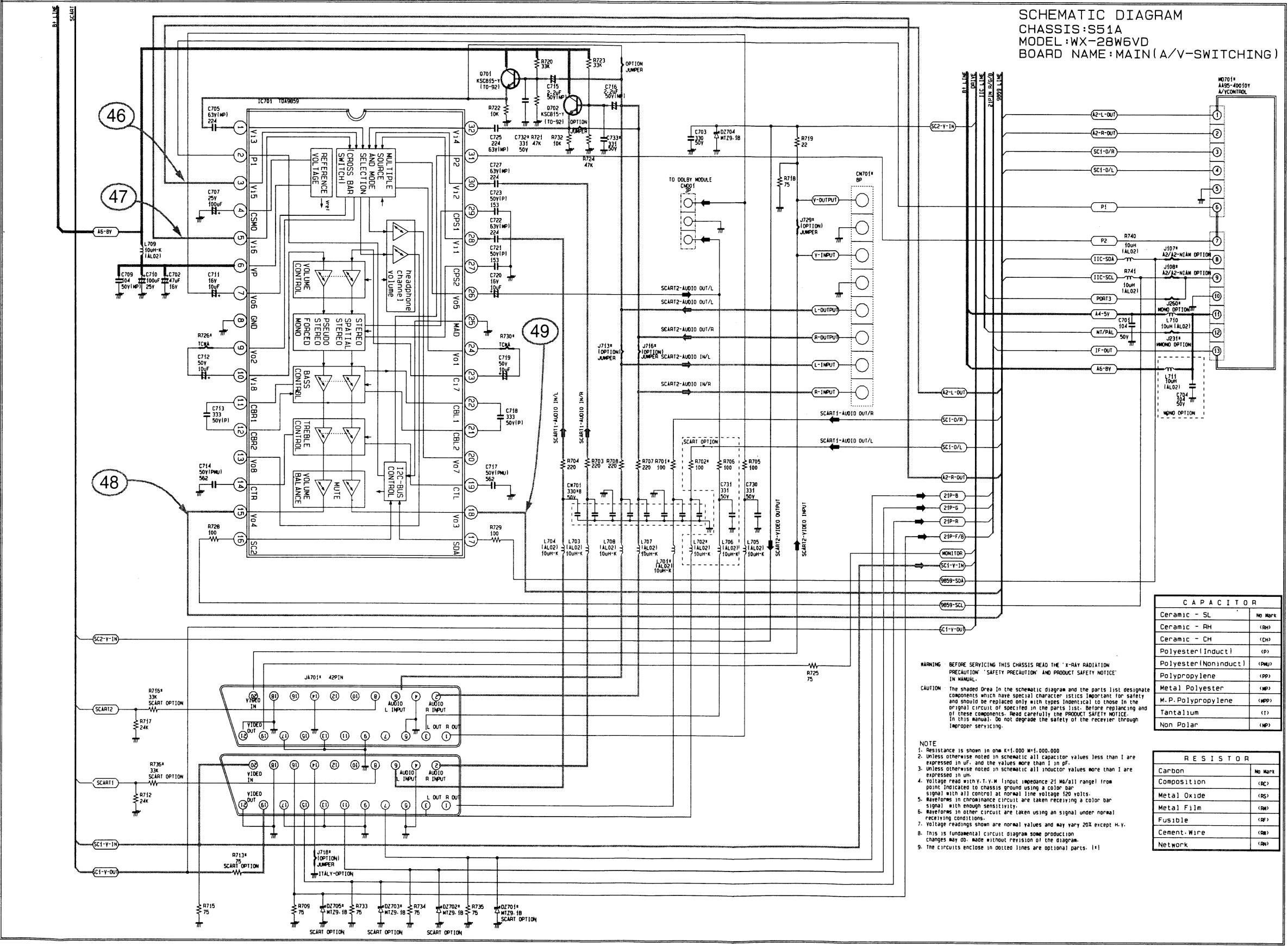


— : Power Line
- - - : Signal Line

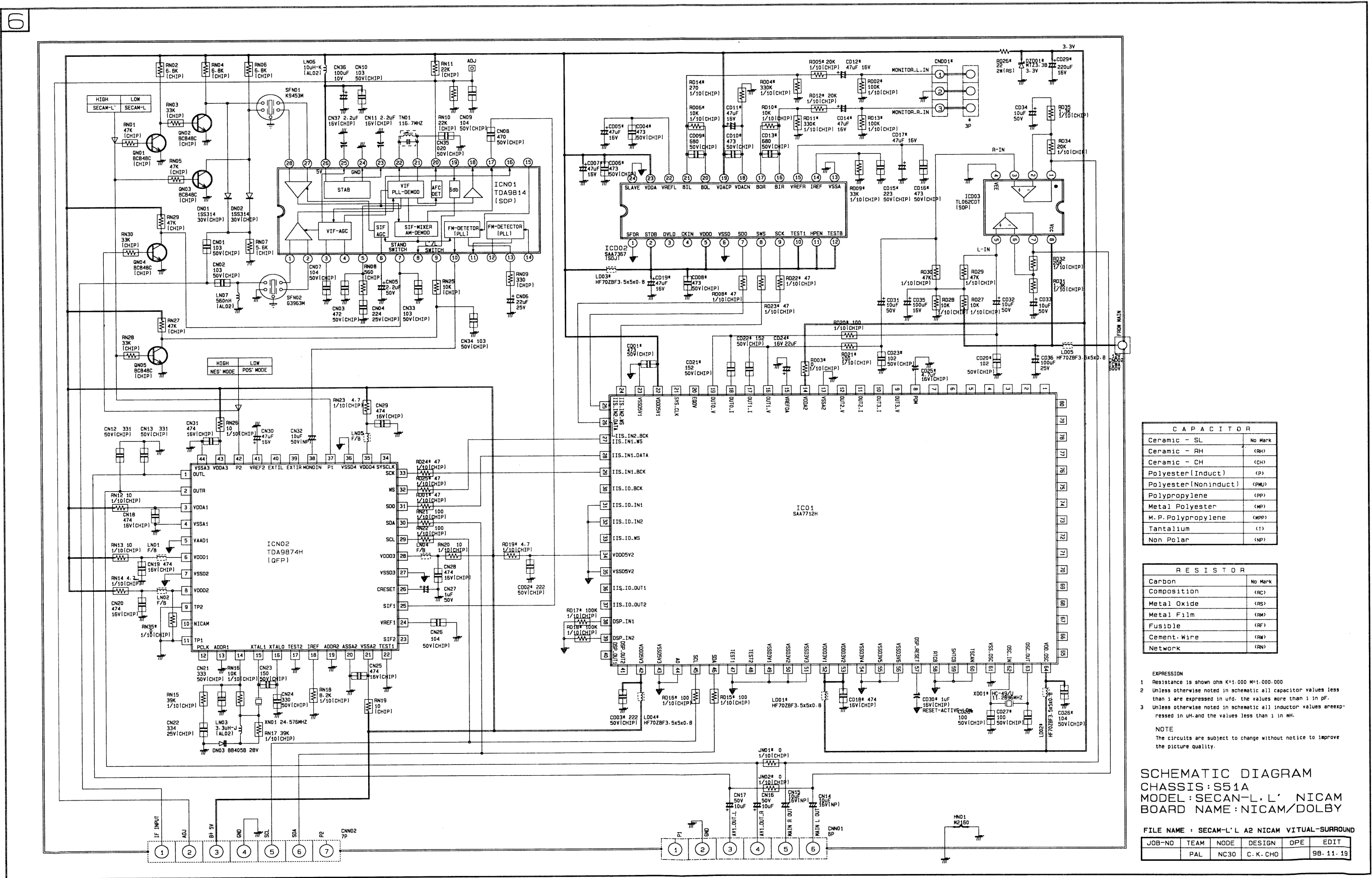


Power Line
Signal Line
One Chip

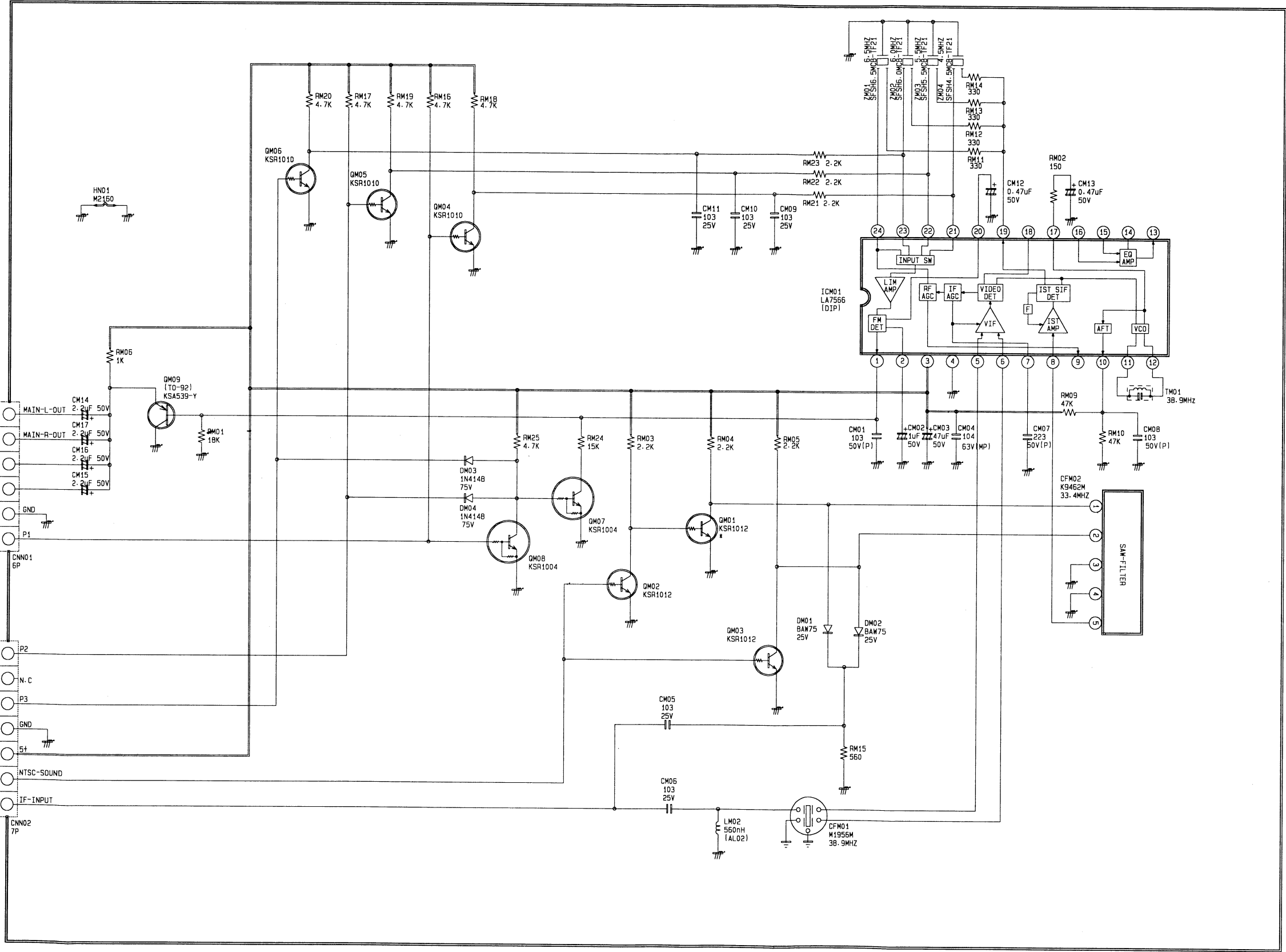
11-6 PWB MAIN (A/V-SWITCHING)



11-7 PWB-SOUND (Nicom / Dolby)

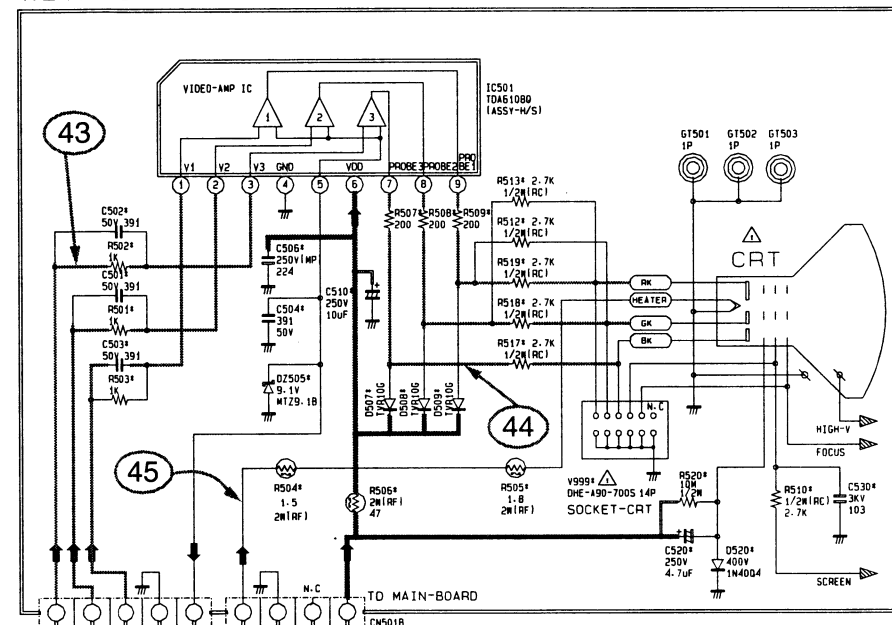


11-8 PWB MAIN (Sound Module Mono)

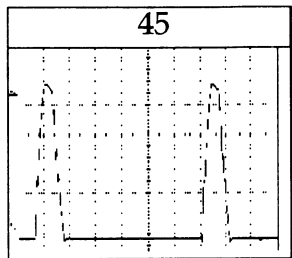
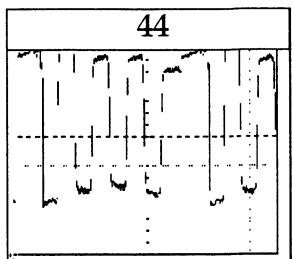
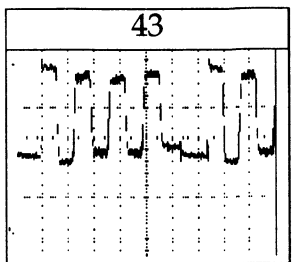
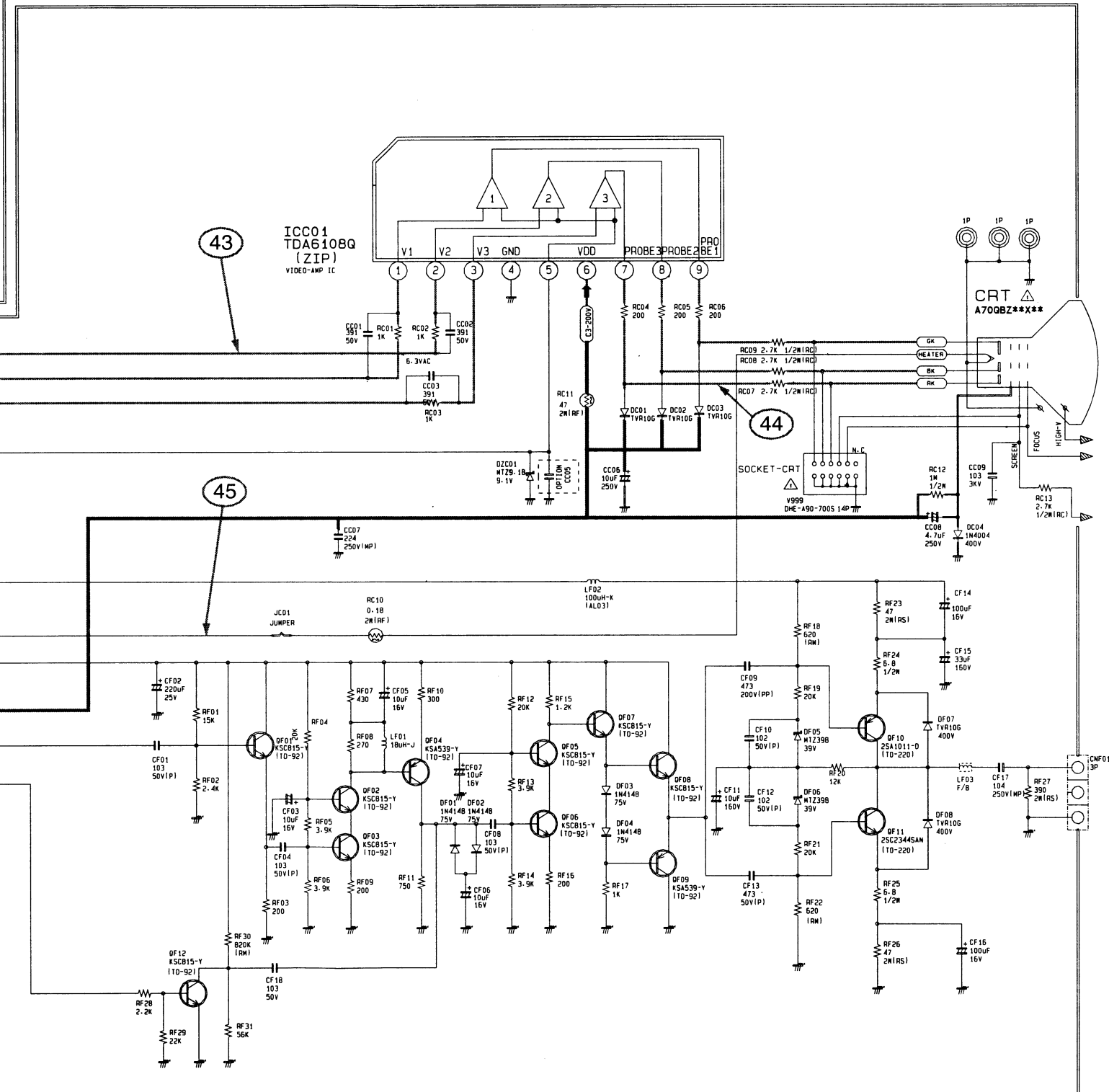


11-9 PWB MAIN (CRT-V/M)

WITHOUT VM (PHILIPS NORMAL CRT)



WITH VM (PHILIPS INVAR CRT)



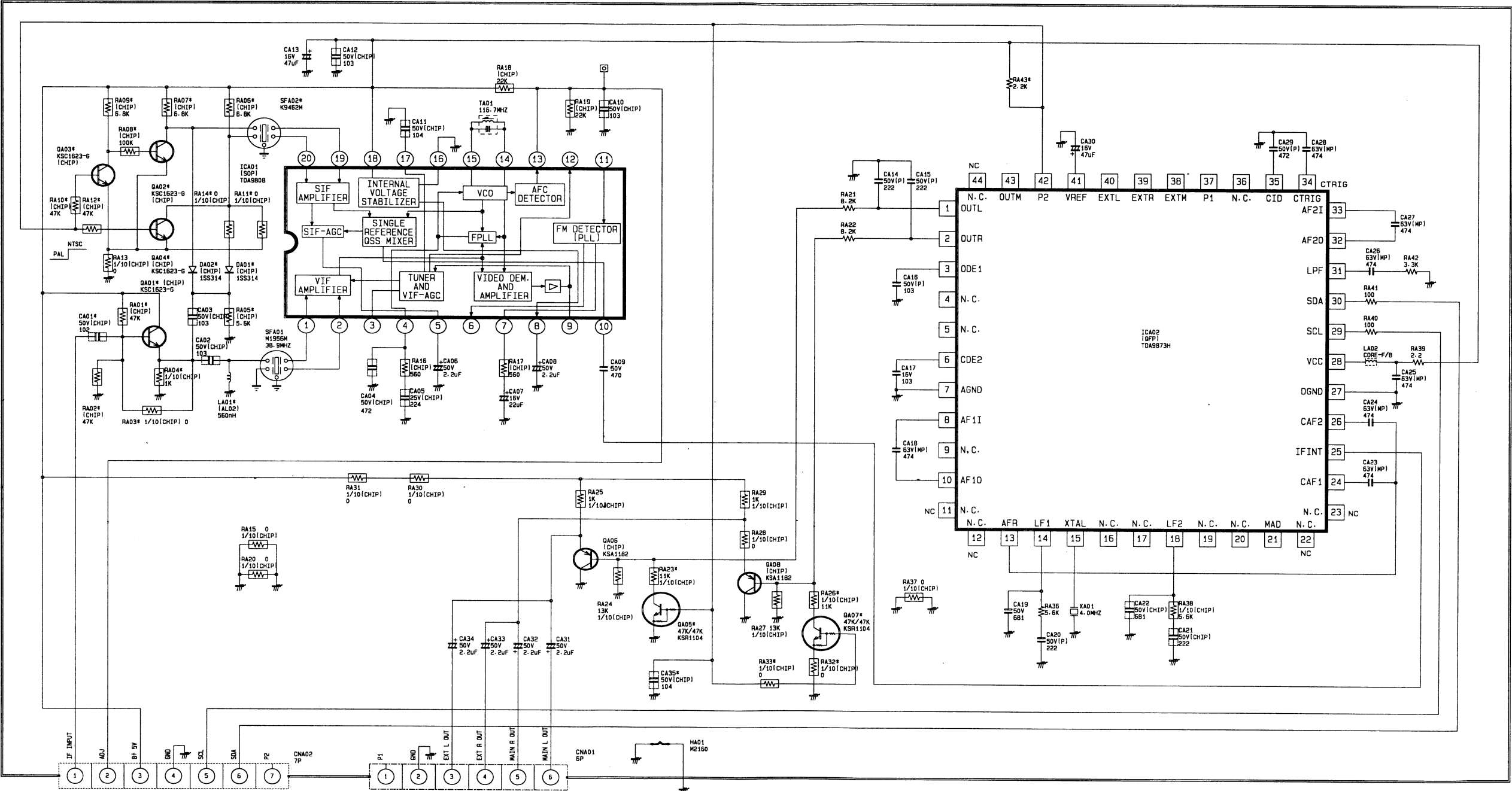
OPTION

NORMAL VS INVAR CPT OPTION							
	PHILIPS INVAR CPT			PHILIPS NORMAL CPT			Remarks
LOC. NO.	CISE NO.	SPEC.		CISE NO.	SPEC.		
C405	2306-000624	C-FLIM 3PP, 4001-434		2306-000105	C-FLIM 3PP, 4001-364		
C414	2306-000330	C-FLIM 3PP, 1.661-772		2306-000330	C-FLIM 3PP, 1.661-772		
C415	2306-000237	C-FLIM 3PP, 1.661-632		2306-000178	C-FLIM 3PP, 1.661-762		
C418	2306-000157	C-FLIM 3PP, 4001-203		2301-000425	C-FLIM 3PP, 4001-333		
R301	3001-000154	R-CARDION 1.661-170		3001-000149	R-CARDION 1.361-170		
R302	3001-000154	R-CARDION 1.661-170		3001-000149	R-CARDION 1.361-170		
R415	3000-00113	R-FUSIBLE 1.2, 2001-61		3000-00131	R-FUSIBLE 1.16, 1.6		
R417	3001-001152	R-CARDION 1.661-474		3001-000167	R-CARDION 1.361-474		
R444	4125-300059	TRANS-FLIM 1.661-FCN04004		4125-300059	TRANS-FLIM 1.661-FCN04003		
	AND			NONE			
R305	3003-000050	R-METRI 151, 26-300		3003-000050	R-METRI 151, 26-470		
R306	3003-000050	R-METRI 151, 26-300		3003-000060	R-METRI 151, 26-470		
R308	3003-000050	R-METRI 151, 26-300		3003-000050	R-METRI 151, 26-470		

———— : Power Line
———— : Signal Line

11-10 PWB MAIN (SOUND MODULE A2-STEREO)

6



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester (Induct)	(P)
Polyester (Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P. Polypropylene	(MPP)
Tantalum	(T)
Non Polar	(NP)

RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement Wire	(RW)
Network	(RN)

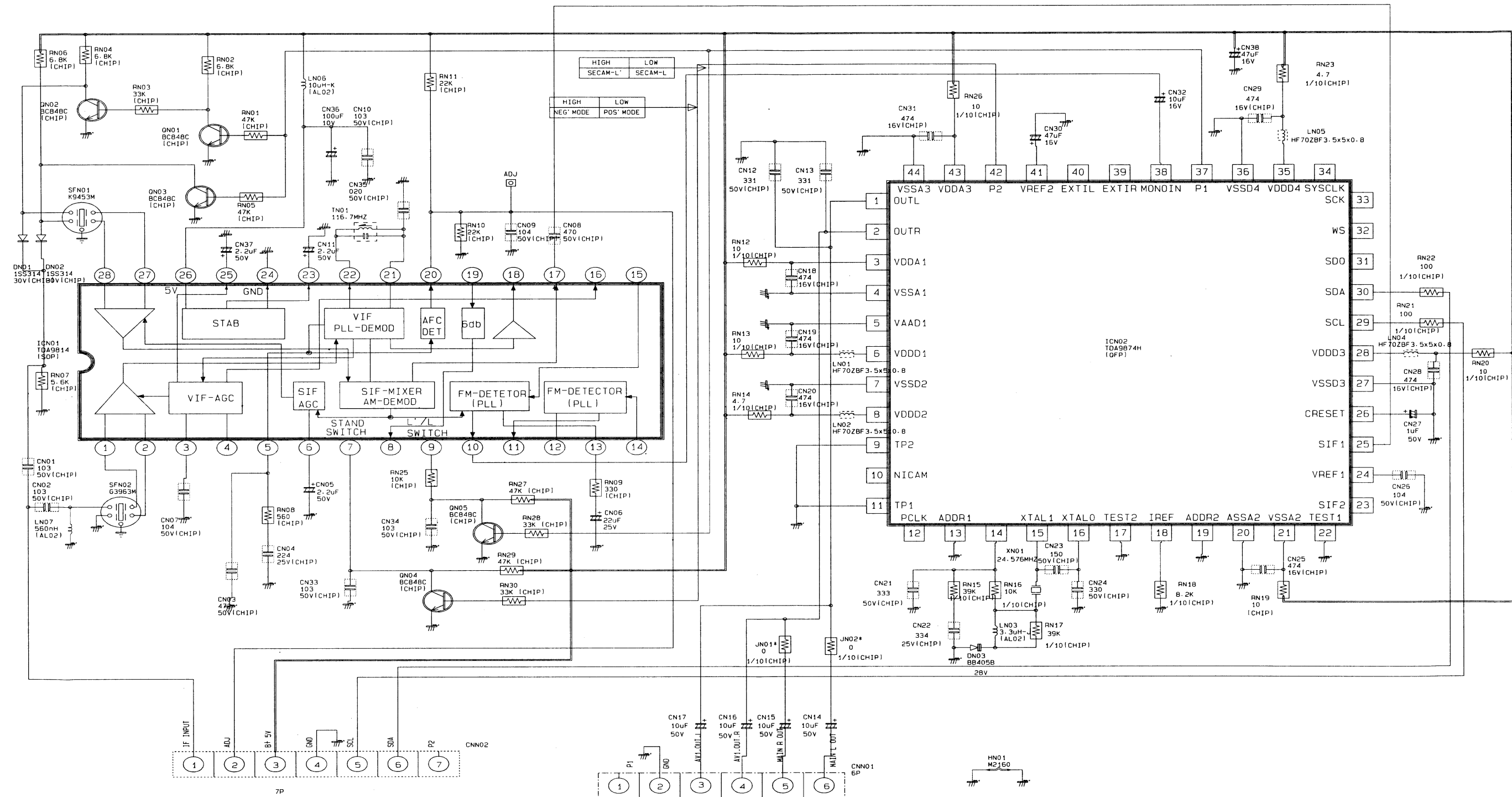
EXPRESSION
1 Resistance is shown ohm K=1,000 M=1,000,000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values are expressed in uH and the values less than 1 in mH.
NOTE
The circuits are subject to change without notice to improve the picture quality.

SCHEMATIC DIAGRAM
CHASSIS: S51A
MODEL: CS29D9
BOARD NAME: SOUND MODULE
A2 STEREO

FILE NAME : A2

JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT
T.V.I.	NC20	Y-K	KIM		1999-01-05

11-11 PWB MAIN (SOUND MODULE L-NICAM)



C A P A C I T O R	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M. P. Polypropylene	(MPP)
Tantalum	(T)
Non Polar	(NP)

RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement Wire	(RW)
Network	(RN)

EXPRESSION

- 1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less
than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values are expressed
in uH. and the values less than 1 in mH.

NOTE

The circuits are subject to change without notice to improve the picture quality.

SCHEMATIC DIAGRAM

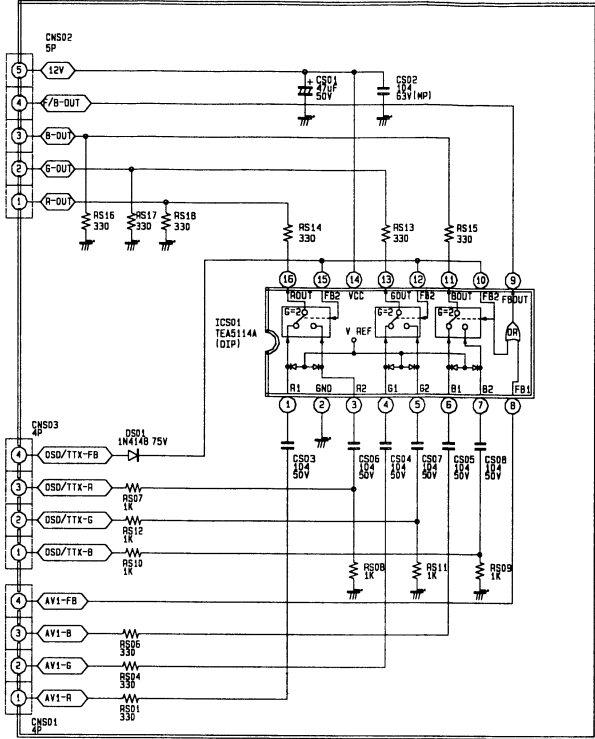
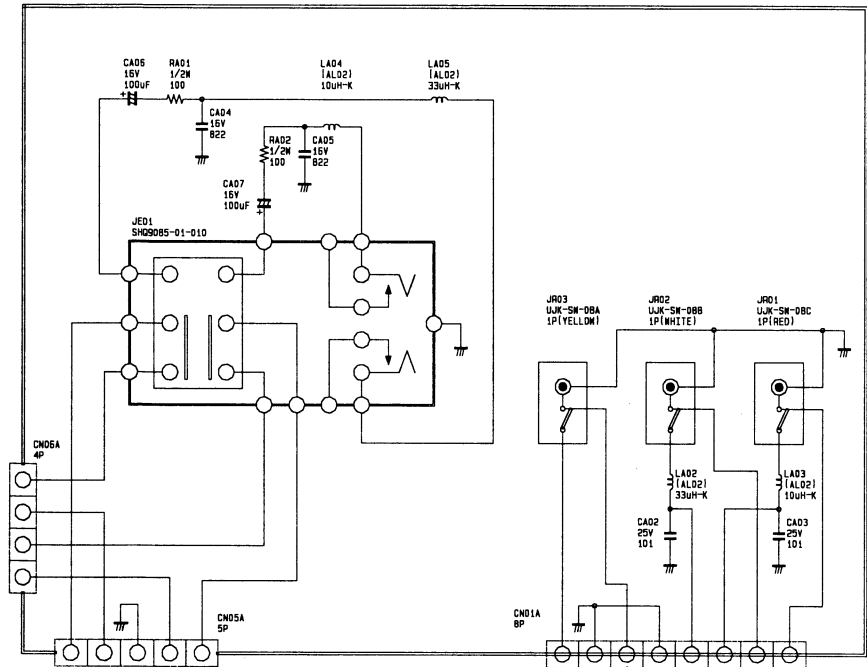
CHASSIS: S51A

MODEL :

BOARD NAME : SECAN-L, L' NICAM

11-12 PWB MAIN (A/V FRONT / VIDEO SWITCH)

FRONT-A/V



RGB - S/W MODULE

CAPACITOR	
Ceramic - SL	NO MARK
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester (Induct)	(P)
Polyester (Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M. P. Polypropylene	(MPP)
Tantalum	(T)
Non Polar	(NP)

RESISTOR	
Carbon	NO MARK
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement Wire	(RW)
Network	(RN)

- NOTE
1. Resistance is shown in ohm K=1,000 M=1,000,000
 2. Unless otherwise noted in schematic all capacitor values less than 1 are expressed in pF, and the values more than 1 in pF.
 3. Unless otherwise noted in schematic all inductor values more than 1 are expressed in uH.
 4. Voltage read with V.T.V.M (input impedance 21 M Ω /all ranges) from point indicated to chassis ground using a color bar.
 5. Signal with all control at normal line voltage 120 volts.
 6. Waveforms in chrominance circuit are taken receiving a color bar signal with enough sensitivity.
 7. Waveforms in other circuit are taken using an signal under normal receiving conditions.
 8. Voltage readings shown are normal values and may vary 20% except H.V.
 9. This is fundamental circuit diagram some production changes may be made without revision of the diagram.
 10. The circuits enclosed in dotted lines are optional parts. (A)

WARNING : BEFORE SERVICING THIS CHASSIS READ THE "X-RAY RADIATION PRECAUTION" "SAFETY PRECAUTION" AND PRODUCT SAFETY NOTICE" IN MANUAL.

CAUTION : The shaded Area in the schematic diagram and the parts list designate components which have special character codes important for safety and should be replaced only with types identical to those in the original circuit of specified in the parts list. Before replacing and of these components. Read carefully the PRODUCT SAFETY NOTICE. In this manual. Do not degrade the safety of the receiver through improper servicing.